



tire inflation systems  
made in Germany



**ti.systems** GmbH    Welsersstraße 1 | 41468 Neuss | Germany  
tel +49 2131. 153 18-0    mail    info@ti.systems  
web    [ti.systems](https://www.ti.systems)

## ti.systems

For more than 25 years our customers have been impressed with our quality “made in Germany”. Our tire pressure systems operate effectively on more than 15,000 vehicles across the world used for:

- fire department, mountain search and rescue services
- border patrol, military and police
- mining
- oil and gas extraction
- construction industry
- off-road transportation
- expedition vehicles
- special transportation

Let's discuss how we can develop custom solutions for you.

Modern manufacturing methods, continuous quality controls and consistent advancements guarantee maximum reliability. This has made us a global market leader and preferred supplier of utility vehicle manufacturers.

Exploit the many advantages of adjusted tire pressure!

## Why adjust the tire pressure?

The correct tire pressure has many positive effects to driving safety and traction, fuel consumption and tire wear.

Tire pressure is influenced by a variety of factors, including ambient temperature, payload or tire damage.

Additionally, pressure adjustments may be necessary to account for the terrain or weather conditions.

Monitoring and adjusting the tire pressure using a ti.systems tire inflation system offers many advantages:

- Increased traction for off-road use or in adverse weather conditions
- Lower fuel consumption
- Improved safety & cornering stability control
- Reduced tire wear
- Time savings through simultaneous and precise pressure adjustment of all tires
- Clearing sand / mud / snow without outside help
- Driving on snow | mud without snow chains



Silicone oil damped gauge, for clearness of display

## Your advantages at a glance

### Traction:

Reducing the tire pressure creates a larger footprint, improves the tire's self-cleaning properties and increases traction by up to 100%!

### Fuel consumption:

A well-adjusted tire pressure effectively reduces rolling resistance and optimizes fuel efficiency.

### Safety:

Higher tire pressure on the road ensures safer driving, with enhanced steering response and stability around corners.

### Tire wear:

Overinflated tires cause premature center tread wear, while the shoulders of the tire are barely worn. The correct tire pressure also ensures less rubber abrasion.

### Operational costs:

The ti.systems tire inflation systems are purely pneumatic units and so require virtually no maintenance.

### Time savings:

Our patented tire valve ensures simultaneous pressure adjustment of all tires in significantly less time than conventional tire inflation systems.

### Environment:

Maintaining the right tire pressure helps to protect the environment!

## Our technology

### Tire valve!

Our patented ti.systems screw-on tire valve makes it quick and easy to adjust the tire pressure of your vehicle using our tire inflation systems. With a greater section width, the tire can be inflated and deflated up to 8 times faster.

Easy to use thanks to quick coupling system! Available for all common valves sizes.

### All tires simultaneously!

Adjust the pressure in connected tires—all at once!

Simultaneous pressure adjustment significantly reduces the inflation and deflation time. Optionally, the system allows different pressure settings for front and back axles.

### Purely pneumatic!

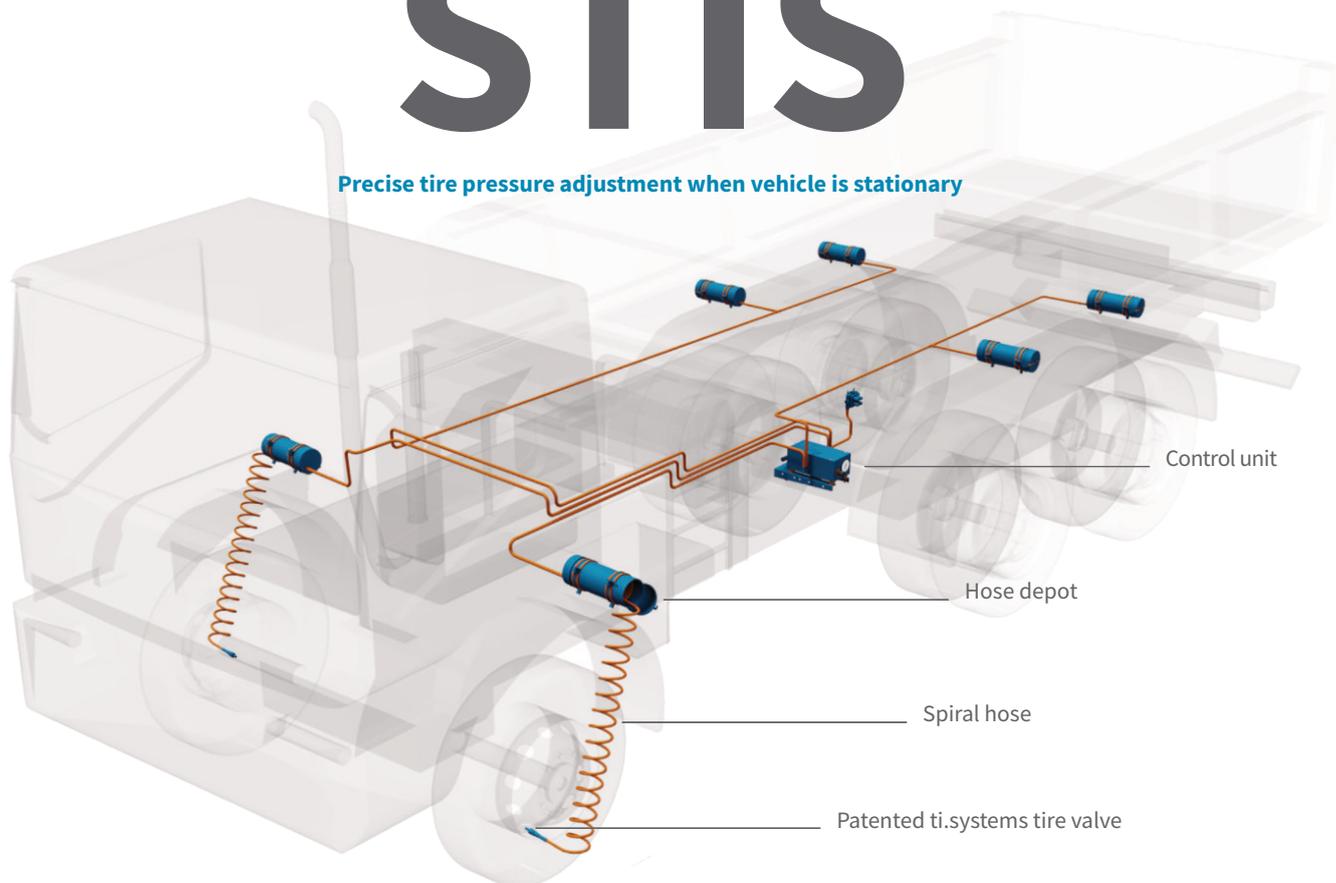
ti.system tire inflation systems are purely pneumatic units with no electric or electronic components. As well as making them hard-wearing, they therefore require virtually no maintenance. What's more, vehicles are easy to retrofit at affordable cost, without having to go through Electromagnetic compatibility testing all over again.



Patented ti.systems tire-valves

# STIS

Precise tire pressure adjustment when vehicle is stationary



STIS 4x4

## Tire pressure adjustment for stationary vehicles

### STIS | Tire Inflation System

Time-tested for many years, the STIS only allows the tire pressure to be adjusted when the vehicle is stationary. The STIS is based on a permanently fixed quick coupling system; it is connected with the vehicle's pneumatic brake system or with one of our powerful AIR SUPPLY compressor systems so the tire pressure can be adjusted anytime and anywhere.

The purely pneumatic control unit guarantees trouble-free operation even in the harshest conditions.

After connecting the spiral hoses, the system operates autonomously, without the need for the driver to monitor the process. The system automatically cuts out when the correct pressure is reached.

Leading manufacturers such as Mercedes Benz and MAN have been offering the STIS factory-fitted in their new vehicles for many years now. Retrofitting is simple and can be done by any workshop or by the buyer himself.

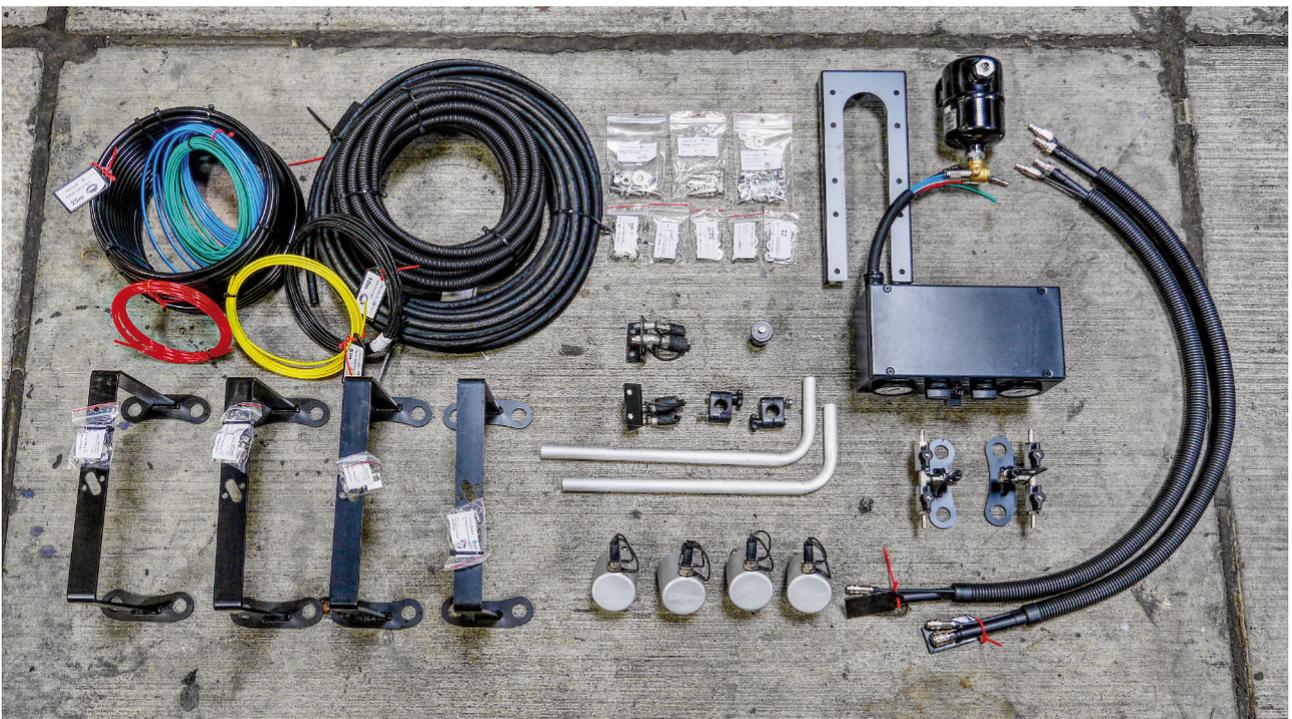
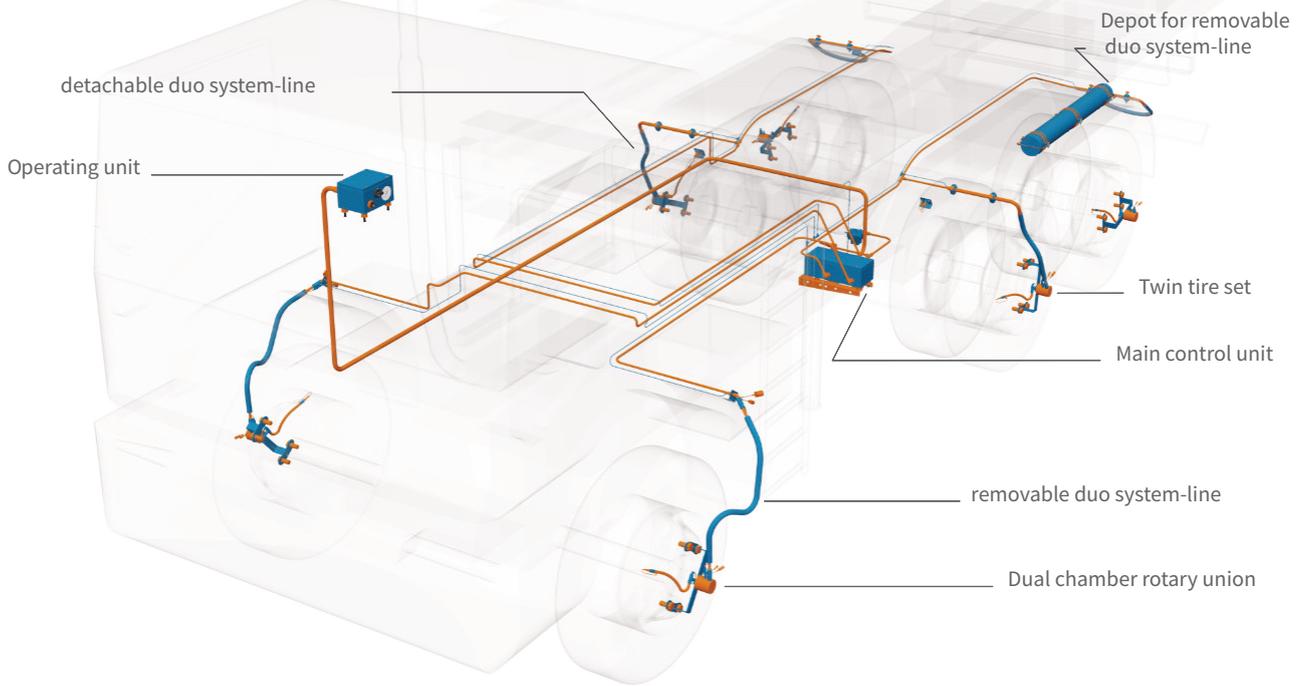
The STIS works fast, is precise and easy to handle.

Main components	Amount for 4x4	Amount for 6x6	Amount for 8x8
STIS control unit	1	1	1
STIS hose depot	4	6	8
ti.systems tire valve	5	7	9
ti.systems adapter	1	1	1
Assembly time*	approx. 4-8 h	approx 6-10 h	approx 8-12 h

\* Installation by one person

# CTISr

Comfortable tire pressure adjustment on the go



CTISr 4x4

## Tire pressure adjustment on the go

### CTISr | Tire inflation System

Our CTISr is an extremely robust and convenient tire inflation system for pressure adjustment on the go and is used primarily on trucks and trailers. It has stood the test for more than a decade in the daily hard work of utility vehicles in agriculture and other applications.

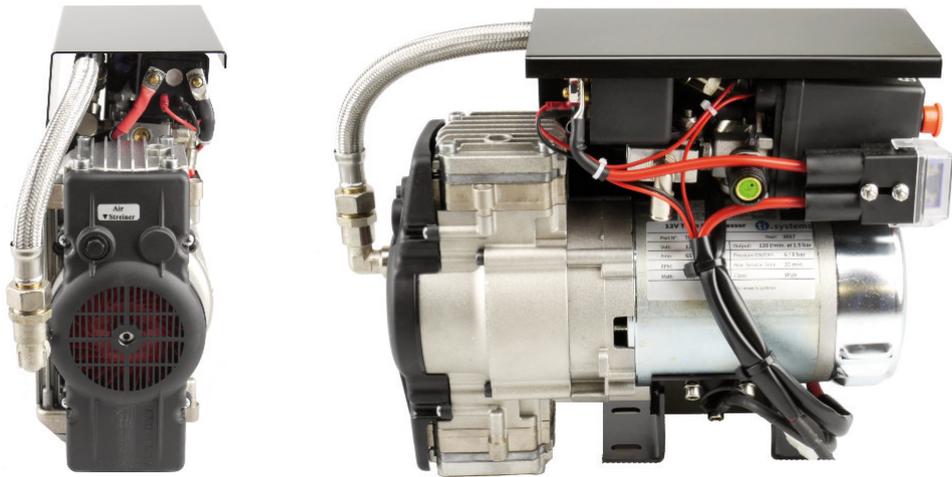
Its detachable and removable hose system makes the CTISr flexible to use and suitable for any truck and trailer, especially for retrofitting.

Once activated, the system allows the user to select up to 8 individually preset tire pressures with just a flick of the wrist, and can be operated conveniently from the driver's cabin. The purely pneumatic control unit adjusts the pressure of all tires to the selected setting before switching off automatically. A second control system can optionally be fitted to set different tire pressures for both the front and back axles (CTISr preset 4|2).

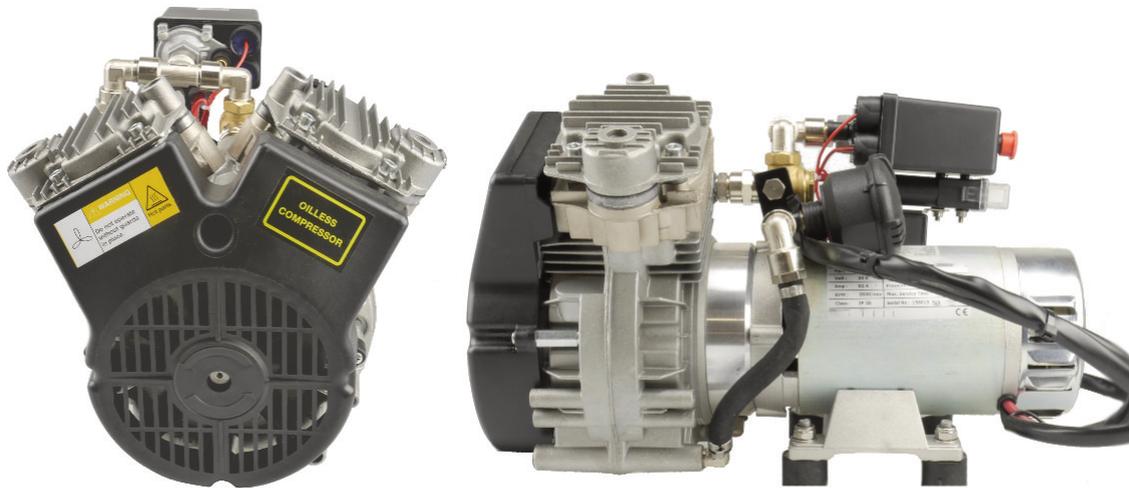
The air lines to the wheels are taken from the fender to the wheel hubs, where our compact dual line rotary unions are fitted to the rims. Special brackets ensure that the lines maintain the correct clearance to the tires when the wheels are turned. The detachable CTISr lines are simply connected to the rotary unions with special quick connectors, and can be disconnected easily when not in use and kept in dummy couplers on the fender. The removable CTISr lines can also be detached in no time and stored in a hose depot.

The compact CTISr rotary unions with long-life grease filling are designed with high-quality seals and bearings in an anodized housing unit for maximum durability. The seals in the rotary unions are only under pressure when the tire pressure is adjusted, which is particularly important in light of the high pressure of your truck or trailer tires!

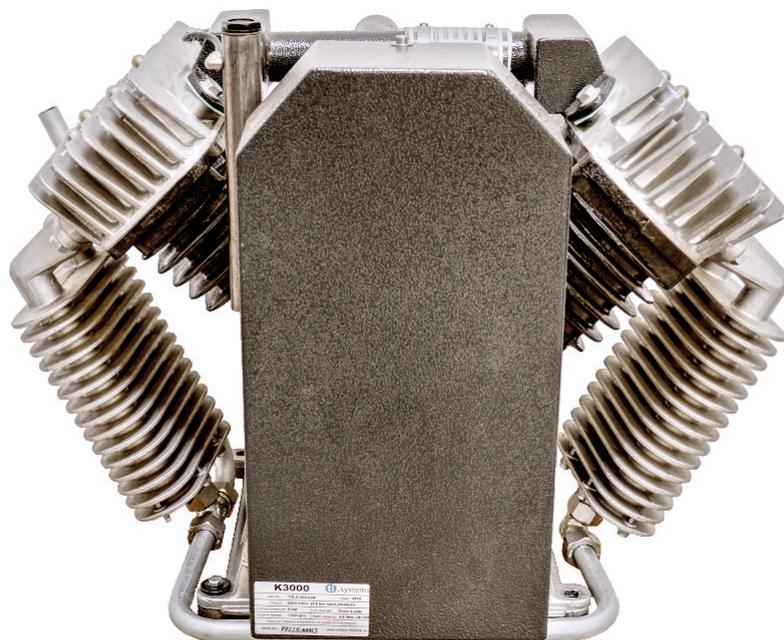
A switchable wheel valve with anti-kickback attachment in the rim closes immediately if a line comes off while driving, to maintain the tire pressure.



AIR SUPPLY K120



AIR SUPPLY K160



AIR SUPPLY K3000

## Air provision

### AIR SUPPLY

Our AIR SUPPLY range offers you electrical driven compressor systems designed for the requirements of vehicles without a pneumatic brake system and a hydraulic driven one especially for trailers

The ti.systems AIR SUPPLY is available in the following models:

The **AIR SUPPLY K120** is an ultra compact, electrically operated 2-cylinder compressor system, with an effective air supply of up to 120l per minute.

**AIR SUPPLY K160** is the more powerful cousin of the K120 and is also electrically operated. With its 2 cylinders in V formation it provides an effective air flow of up to 160l per minute.

Especially for trailers with large-volume tires we provide the **AIR SUPPLY K3000**. The hydraulic driven compressor-system is the largest and most powerful ti.systems compressor-system. It enables you to adjust the tire pressure with a capacity of up to 3000l per minute.