

GET A GRIP GET MOVING GET TRACTION AIR®



SMARTER UNDER PRESSURE

THE TRACTION AIR® SMART CTI system matches tyre pressure to load and road surfaces, with semi-automated intelligent control from the comfort of the cab

With over 20 years of innovation the Traction Air® CTI system has been engineered to keep your fleet operating efficiently and safely in all hazardous conditions, backed with a 3 year/ 500,000km warranty*

Pressure Cells

The most visible innovation of Traction Air® is the Pressure vessel, a one-piece pneumatics enclosure. The pressure cell components are fully protected from snow, ice and water with IP66 standard water proofing and self-purge technology.

Constructed in a composite, the cell ensures ultimate protection against contaminants. Preassembled, metric kits are designed for fast and simple installation.

The Traction Air® CTI System can be configured for multiple channels and set up.

- **Single drive axle system**
- **Drive axle and steer axle system**
- **Drive axle and trailer axle system**
- **Drive, steer and trailer axle setup**



Advanced Technology

Software Technology for Industry

CAN bus communication and GPS technology is integrated into the software. *CAN bus communication* is also capable of interfacing with other OE manufacturer platforms.

Improved Electronic Protection

Improved power spike protection to 160V. The internal diagnostics alert the driver if power supply exceeds 40V the ECU will display "supply voltage peak exceeds 40V". Additionally should the loom between the ECU and pressure cell ever be compromised the driver is alerted and the ECU will display "power short circuit".

- **Improve traction**
- **Reduce tyre wear**
- **Reduce damage to road surfaces**
- **Greater fuel efficiency**
- **Improve vehicle and driver safety**

Improved Alert Functions

"Taps Off" driver alert - should the driver forget to turn the wheel taps on when starting the day's work, the ECU will beep and the display will tell the driver to "turn the wheel taps on".

Dual Transducer for Enhanced Safety

The Traction Air dual transducers continuously measure pressure, providing protection on every channel, alerting the driver to any potential system faults. No other CTI system offers this level of pressure accuracy and safety through redundancy.

Improved Air Leak Detection

Enhanced air leak and puncture detection. Should an air leak or puncture occur while the vehicle is in operation, the driver is alerted through audible and visual alarms. The pressure at the tyres is shown in real time, if the leak is bigger than what the compressor can keep up with, the driver has the opportunity to isolate the leak at the source..

Warranty*

3 Year 500,000km warranty on all electronics and pneumatic valves.



Electronic Control Unit (ECU)

LCD Touch Screen

New Graphic LCD Display features a larger, easy to read screen with improved clarity and digital readout. We now have the ability to customise the graphic display to your fleet. The adjustable backlight allows the driver to alter the brightness of the display when operating at night.

Traction Air's touch screen and DIN mount Electronic Control Unit or ECU's are 8-30V multi volt for no fuss installation. Its compact size allows for clearly defined read outs on multi-channel systems (Trailer, front axle and drive axle)

DIN Mount ECU

Traction Air's new DIN mounted ECU will fit in any standard DIN radio slot in the vehicle, this ECU is ideal for single and dual channel systems (steer and drive or drive and trailer).

Future Proofed for new technology

Our Traction Air ECU's are future proofed through the additional input and output ports on the rear connection. This allows for future integration with CAN bus, GPS RS232 in and out and bolt on options such as Bluetooth and cellular modem 3G/4G etc. Note: Software may need development depending on the operational requirement.

Simple to Use

Traction Air is the only CTI system with simple touch screen technology. It is designed for the driver to operate easily, day or night. The software was developed for a fast response, and can be fully customisable to your operation and environment with complete autonomy.



Safety through 'GPS Speed Up'

This advance is at the cutting edge of CTI pneumatic control. In principle, we use a GPS receiver to measure the ground speed and match this to stepped pressure intervals. As the truck increases speed the system pumps itself up.

This feature provides peace of mind for the fleet owner, knowing that the driver can no longer drive down the road with the tyre pressure at too low a setting for the speed of the vehicle. The system is fully programmable and can be set for your fleets specific requirements and operational terrain.



The Traction Air[®] CTI system caters for most makes and models of heavy industry vehicles with a range of options to suit.

Heavy Duty High Temperature Hub Reduction Model Wheel End

This wheel end assembly design was developed to meet the extreme heat requirement when combining Hub Reduction Vehicles with Australia’s mid-summer temperatures of over 40°C. The design removes heat from the internal seal facings which significantly improves their operational life.

Compact Wheel End Rotator

Full stainless centre shaft and compression spring with two dual contact fully sealed heavy duty bearings. Tungsten Carbide and Carbon seal facings to deliver maximum strength and durability. This rotator is the most durable and compact rotator on the market.

Trailer Axle Solutions

Internal trailer axle wheel end solutions to suit European markets. Traction Air has options for most leading market brands. ROR, BPW, SAF etc.



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