

Central Tyre Inflation

Complete Systems Solution



“Best in Class” deflate performance

Vehicles operating on and off road, often encounter variations in performance due to the different operating terrain. With the installation of the Parker Central Tyre Inflation system (CTIS), improved performance can be achieved by simply providing the driver control of the tyre pressures from within the cab at the push of a button. Adjusting pressures up or down improves mobility with optimum tyre to surface contact based upon the conditions and vehicle load.

Military vehicles experience extreme conditions and for efficient transport employ CTIS to provide full mobility. Tyres can be controlled independently to maintain mobility even in the case of a puncture. The PARKER patented wheel valve is sealed at the wheel preventing contamination ingress, ensuring reliable inflation and deflation.

Fitted to Agricultural machines, CTIS systems provide the opportunity to increase operational efficiency and productivity by reducing soil compaction and wheel slip. Ultimately increasing crop yield and reducing tyre wear and fuel consumption providing the operator financial benefits. In addition better stability can be achieved as well as increased operator comfort.

In conclusion a CTIS system greatly improves vehicle operational efficiency.



YouTube / Parker's CTIS (Central Tire Inflation System)

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Product Features:

- Lower Operating pressures provide Improved mobility (Military) and cropyield (Agriculture).
- Reliable fast remote venting optimizing emergency response (Military), and productivity (Agriculture).
- Sealed wheel valve with remote venting provide Improved reliability.
- ECU outputs available for integration of customer defined functions.
- 4, 6 & 8 wheel options available with common technology for simplified configuration.
- Flexibility to provide independent tyre pressures at each wheel for response optimization and improved productivity.
- Single pipe wheel valve operation providing simplified installation and improved performance.

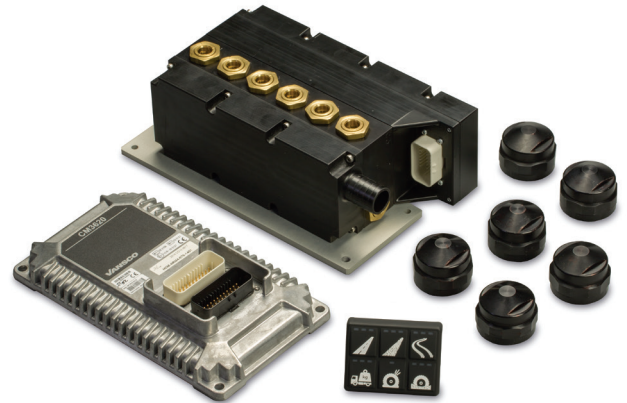


ENGINEERING YOUR SUCCESS.

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Specifications:

Operating Temperature Range	-40°C to 70°C
Operating Voltage	12V or 24V (Nominal)
IP Range	Wheel Valve – IP69 Pneumatic Control Unit – IP68
Datalink Communications	SAE J1939



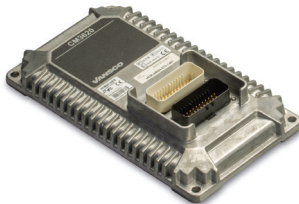
Human Machine Interface (HMI):

- CTIS interface via SAE J1939 data link
- Parker supplied or option to utilise existing OEM configurable HMI



Pneumatic Control Unit (PCU):

- Incorporates high flow, proprietary Parker direct acting valve design
- Independent wheel end control
- Individual channel and supply pressure sensing
- Scalable for number of channels
- Frame mountable, environmentally robust



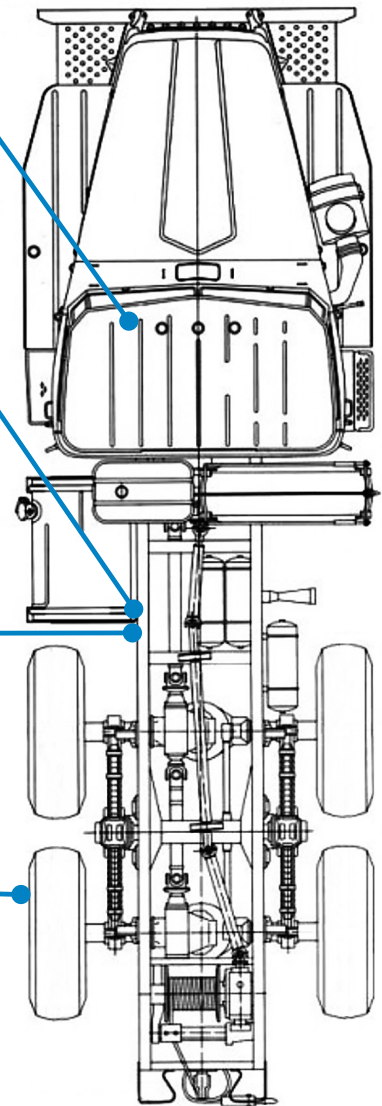
Electronic Control Unit (ECU):

- Utilises transportation industry proven Parker electronic components
- Communication via SAE J1939 data link
- Flexibility to provide auxiliary outputs



Wheel Valve:

- “Best in Class” deflate performance
- Non-piloted, remote vent design
- Available in flush mount and ported wheel mountings for Military and Agriculture
- Defaults to fail-safe closed state



View Central Tyre Inflation video on YouTube: https://youtu.be/qdNwQpJ_XCo