Haldex solutions for trucks, buses and trailers

Innovative Vehicle Solutions

Haldex
ModulAir®
Air management system

ModulAir® cleans, dries and controls compressed air in trucks and buses.
› Manages the different pressure levels and provides all necessary information, including diagnostics
› Helps reduce fuel consumption
› Saves at least one air tank per vehicle
› Decreases pneumatic and electrical connections

Protect-O
Coupling heads with filter

Coupling head with rubber diaphragm which protects the pneumatic system from the ingress of impurities.
› Cost effective compared to conventional coupling head and filter
› Line filter integrated
› Optional test point
› Easy to retrofit

Consep
Air pre-treatment

Consep is an efficient system for preliminary air treatment in trucks and buses.
› Removes solid particles, liquid droplets and mist from the compressed air flow
› Increases cartridge life of air driers
› Easy installation between compressor and air drier
› Easy retrofit - no electrical installation necessary with pneumatic version
**EB+ Gen3**
Electronic braking system for trailers

The third generation of EB+ comes with greater than ever capacity.
› Operational range of 8 to 32 volts
› Accommodates multiple auxiliary CAN devices
› Faster response time on long control lines
› Super Aux standard on 2M and 3M

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**EB+ Info Centre**
Trailer diagnostic unit

EB+ Info Centre provides trailer status at a glance.
› Clear structure and symbols
› Provides comprehensive information (e.g. distance travelled, trip distance, service intervals, tyre scale setting etc...)
› LED warning lamp indicates any faults
› Information available in 21 languages

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**EB+ Load Transfer**
Axle load management

EB+ Load Transfer balances the vehicle’s axle loads to protect from overload and damages.
› Weight per axle does not exceed legal limit
› Automatic distribution of weight
› Better cornering due to shorter wheelbase
› Can be disabled during winter time

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**TPMS**
Tyre pressure monitoring system

The Haldex TPMS measures not only tyre pressure but also tyre temperature.
› Prevents downtime and saves costs
› Less fuel consumption
› Extends tyre lifetime
› Reduces CO₂ emission

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**EB+ Soft Docking**
Ramp approach assistance

EB+ Soft Docking is an effective aid for reversing to a loading bay.
› Designed to avoid blind spots
› Helps to prevent costly damages
› Activates brakes automatically
› Acoustic and optical warning
› Silent mode for night deliveries
› Outdoor temperature monitoring for optimal performance

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**New version**

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**New**

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**CREATING VALUE**

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**CREATING VALUE**
**Fleet+**

**Trailer data analysis**

Fleet+ analyses the conditions to which chassis, axle and tyres of a trailer have been exposed.

- Winner of the Trailer Innovation Award
- Identifies areas for potential improvement
- Stores data from the most recent 1,000 trips (e.g. no. of brakes, loads, activation of roll-over-stability)
- Immediate presentation of data in graphic form
- No additional ECU hardware necessary; no costly analysis service or web connection required

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**EHS**

**Electronic height sensor**

EHS enables vehicles with a mechanical suspension to be fitted with Haldex EB+.

- Provides the benefits of an EBS system, e.g. greater safety, less brake wear
- Balances braking, even in harsh driving conditions
- Improves vehicle handling

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**TEM® Safe Parking**

**Park and shunt valve, pressure protection valve**

For better everyday safety when coupling and uncoupling trailers. Now available as TEM® Safe Parking single knob version with ‘dead man’ function.

- With the award winning “Safe Parking” function
- With or without pressure protection valve
- With shunt valve available
- Designed for universal application

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**ILAS®-E⁺**

**Integrated lift axle system**

ILAS®-E⁺ operates through information via the EBS system to raise or lower the lift axle.

- Additional ports integration to provide higher flexibility for various installation purposes
- Compatible with Haldex EB+ and other EBS systems
- Push-in fittings
- Fast response due to high flow rate

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**COLAS⁺**

**Raise and lower valve**

The COLAS⁺ raise and lower valve offers an exceptionally wide range of functions.

- Automatic reset to drive position (reset to ride) avoids damage to the mechanism and the chassis
- Integrated roll on roll off (RoRo) function prevents changes in trailer elevation when transported
- ‘Deadman’ automatic, emergency shut-off system for greater safety
- Push-in connectors
- Test point included

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**Blue Seal®**
**Spring brake actuators for drum brake**

The Blue Seal® spring brake is a combined actuator for service braking and parking.

- Quick and easy installation
- Establishes own reference point; no need to preset control arm
- Durable and with predictable performance
- Designed to work together with an electronic lining wear sensor which provides continuous information on brake lining wear

**Blue Seal®**
**Spring brake actuators for disc brake**

The Blue Seal® double diaphragm spring brake is a combined actuator for service braking and parking for disc brakes.

- Secure and reliable sealing of both diaphragms
- Resists corrosion from road de-icing chemicals
- Watertight seal to protect brake mechanism from contamination

**Brake chamber**
**Actuators for disc brake**

The brake chamber is an easy and robust construction.

- Secure and reliable sealing of the diaphragm
- Resists corrosion from road de-icing chemicals
- Watertight seal to protect brake mechanism from contamination

**ModulT**
**Air disc brakes**

The ModulT platform has been developed to meet increased customer demand for performance, robustness, operational uptime, weight, price and total cost; available for 17.5, 19.5 and 22.5 inch wheels.

- Low weight with high performance and efficiency - double roller bearings for the mechanism lever keeps the hysteresis low
- Even pad wear: robust single tappet with clamping force distribution similar to a twin tappet mechanism
- Easy servicing: no special tools needed for pad exchange
- Long service life: lubrication free sliding pins and inverted self protecting mechanism bellows

**S-ABA**
**Automatic brake adjusters**

The S-ABA is a self-setting automatic brake adjuster operating according to the clearance principle developed by Haldex - now widely accepted as a world standard.

- Quick and easy installation
- Establishes own reference point; no need to preset control arm
- Durable and with predictable performance
- Designed to work together with an electronic lining wear sensor which provides continuous information on brake lining wear
Haldex develops and provides reliable and innovative solutions with focus on brake and air suspension products to the global commercial vehicle industry. Listed on the Stockholm Stock Exchange, Haldex has annual sales of approximately 3.9 billion SEK and employs about 2,135 people.

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