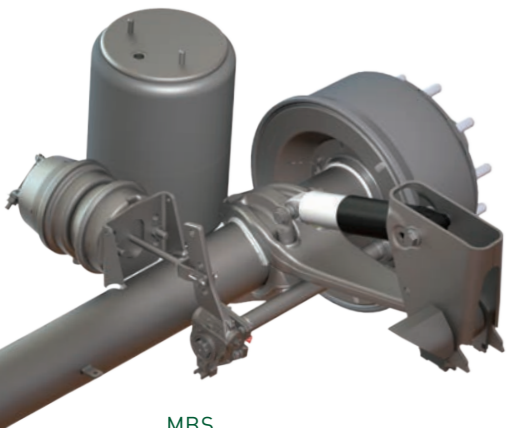




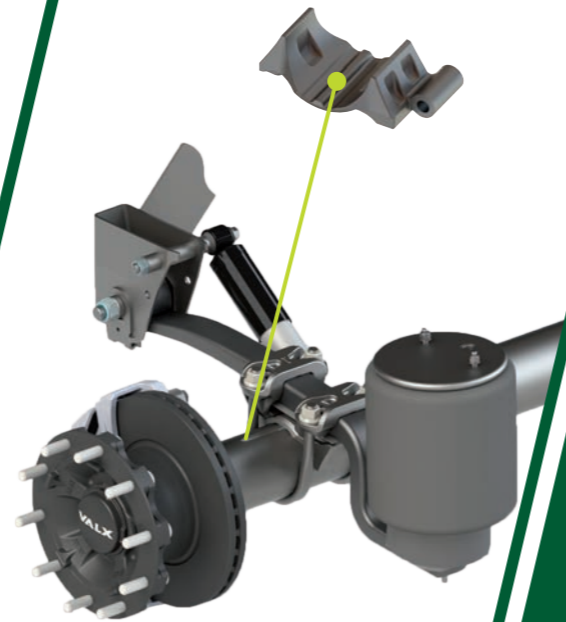
AIR SUSPENSION

The suspension is clamped around the axle and held in place by a groove in the beam, offering a unique modularity in spring track and ride height. This non-welded construction ensures maximum strength and improves the life of the axle.



MBS

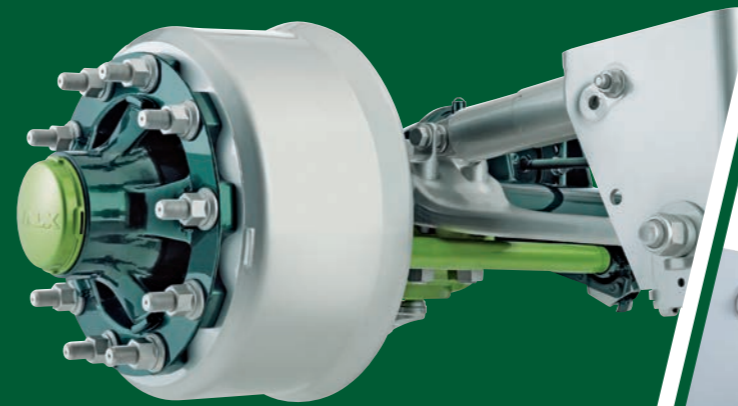
- Modular design from a world suspension leader VDL Weweler
- Lightweight construction with low component count for a wide range of ride heights of 210 - 460 mm
- External bump stop
- Center mounted shockabsorber with high temperature viton seals providing optimal critical damping
- Realignment and maintenance free
- Shockabsorber works as a check strap
- Optional: bolt on axle lift
- Optional: one type splitter for the MBS range



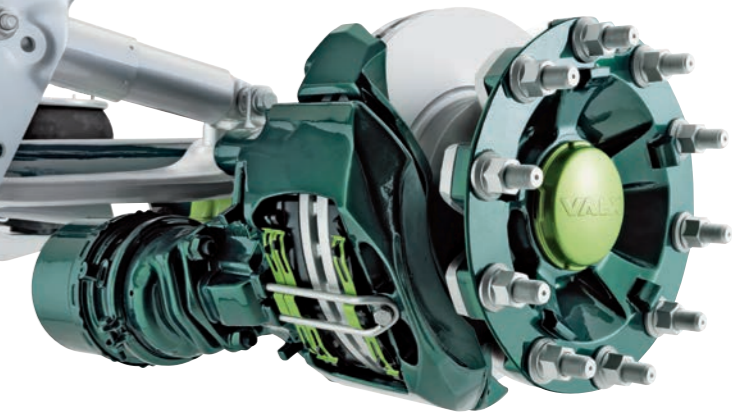
MBS V2

- Customized design from a world suspension leader VDL Weweler
- Available in 75 mm and 95 mm trailing arm widths
- Wide range of ride heights of 245 - 535 mm
- Easier mounting to chassis
- Bump stop in airspring
- Side mounted shockabsorber with high temperature viton seals providing optimal critical damping
- Realignment and maintenance free
- Shockabsorber works as a check strap
- Optional: bolt on axle lift

VALX DRUM 420 / 360



VALX DISK 430 / 370



SELF STEERING AXLE

The VALX self steering axle has the same outstanding durability as the well proven rigid axle. Designed, built and tested in Europe and available with disk or drum brakes.

- Reduce tyre wear
- Reduce fuel consumption
- Improve road behaviour
- Reduce wear of trailer components
- Increase maneuverability
- Low maintenance
- Long-lasting kingpin bearings
- Heavy Duty locking Mechanism



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Technical specifications

BEAM

The axle is based on a one piece, extremely strong seamless, cold-drawn beam design. The non-welded beam structure eliminates risks of weakening or material degradation.

HUB

Disk: 120 mm offset and 19.5 or 22.5 inch wheel sizes
Drum: 0 mm offset and 19.5 or 22.5 inch wheel sizes

AIR SUSPENSION

The specially developed VDL Weweler air suspensions meets the VALX philosophy of light weight, low component count and minimal maintenance.

DISK BRAKE

Ventilated disks to VALX design ensure excellent brake cooling. A design optimised for wear and thermal behaviour, including thermal shock.

DRUM BRAKE

The drum brake offers high efficiency, thermal and mechanical stability and low peak stresses, together with consistent and predictable brake performance.

CALLIPERS

WABCO's proven reliable single-piston technology has made the PAN range one of the most successful air disk brake ranges.

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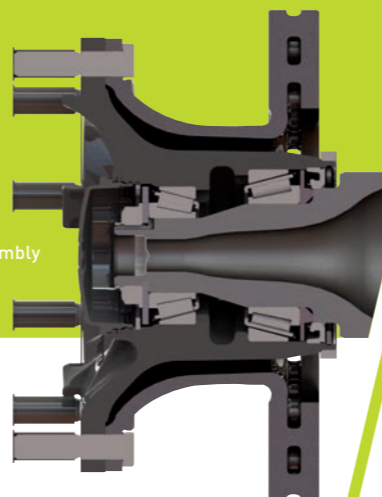
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hub assembly



VALX AXLES	DISK 430	DISK 370	DRUM 420	DRUM 360
axle load	9000 Kg	9000 Kg	9000 Kg	9000 Kg
wheel size	22.5"	19.5" / 22.5"	22.5"	19.5"
axle beam	1 piece - ø 146 mm	1 piece - ø 146 mm	1 piece - ø 146 mm	1 piece - ø 146 mm
hub offset	120 mm	120 mm	0 mm	0 mm
wheelbolts and dimensions	10 - M22 x 1.5 mm	10 - M22 x 1.5 mm	10 - M22 x 1.5 mm	8 - M22 x 1.5 mm
wheel bolt circle	335 mm	335 mm	335 mm	275 mm
brake dimensions	430 mm	370 mm	420 x 180 mm	360 x 200 mm
tyre mounting	Single	Single	Single	Single
self steering axle	Optional	-	Optional	-
e2l energy axle	Optional	Optional	Optional	Optional
hubodometer	Optional	Optional	Optional	Optional

BEAM

The VALX axle beam has a higher strength-to-weight ratio than any other in Europe, and forms the basis for long-term durability under tough operating conditions.

- Spindle journals have thickened sections, and are induction hardened and ground to increase life and minimise fretting
- Straightened after completion
- Main axle beam assembly is fully E-coated (KTL) for long-lasting corrosion protection
- Standard Ø 146 x 10 mm, optional Ø 146 x 13 mm

HUB

Highly accurate CNC machining and reduced tolerances ensure accurate bearing pre-setting and an even pressure distribution across the bearing cups. The wide bearing spread minimises bearing loads and maximises bearing life, while reducing sensitivity to brake heat transfer.

- Designed and tested in Europe to accepted European standards
- Bearings and seals are retained in place by circlips when the hub is removed, simplifying service and maintaining the integrity and cleanliness of the hub assembly

SEAL

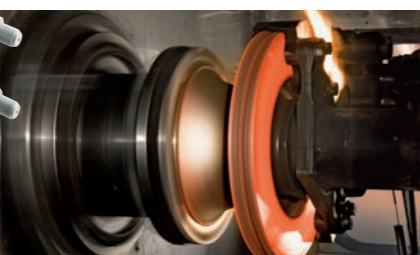
For the VALX axle hub SKF supplies the specially developed seal, made of high-temperature resistant, long-life HNBR rubber to exclude dirt and moisture from the wheel bearings.

- Specially designed multi-lip seal, common to all variants
- Spring-loaded primary lip seals keeps grease in and keeps road dirt and water out
- Easy to fit and remove

BEARINGS

The bearing solution is based on two single-row preset tapered roller bearings, combining cost-effective maintenance with maximum performance and reliability with minimum total cost of operation. Optimised pre-setting maximises bearing life.

- Widely available, high-capacity bearings
- Bearings can be disassembled for inspection and replaced if necessary
- Hub retains the bearings when removed, protecting them from dirt entry



DRUM BRAKE

The VALX drum brakes have been developed with the support of brake expert prof. Andrew Day of the University of Bradford, UK. The design is based on proven technology.

- 420 x 180 mm and 360 x 200 mm variants
- Camshaft head and journals hardened
- Large bronze plated cam head bearing with lip seals
- Hardened three-piece cam roller with bronze bush
- Thermally optimised drums
- Friction pairs matched for optimum wear rates
- Forged steel brake spiders with increased stiffness for high stability
- Fully wear and crash tested with TÜV approvals
- Dust cover enclosed in the drum for better protection

FRICTION MATERIAL

Textar T0124 trailer friction material is specially designed and developed for VALX S-Cam foundation brakes.

- Exceptional brake performance across the entire speed, pressure and temperature ranges
- High resistance to wear and good noise performance
- Kind to drums: superior brake drum compatibility

DISK BRAKE

WABCO is a leader in heavy commercial vehicle brake solutions offering the optimum combination of weight and performance. Ventilated disks to VALX design ensure excellent brake cooling.

- Available in 430 mm and 370 mm sizes
- Ventilated design optimised for wear and thermal behaviour, including thermal shock
- Excellent performance due to high mechanical efficiency
- Attached to the hub flange to improve thermal behaviour and support the hub
- Maintenance-free design with lifetime lubrication

BRAKE CALLIPER

A compact design based on the patented single-piston technology. The universal WABCO/VALX callipers are field-replaceable by other standard components for optimum serviceability. WABCO's PAN 19-1 and PAN 22-1 calliper types are standard fitment.

- Well proven design with long service history
- Corrosion-resistant E-coating (KTL)
- Spare parts widely available through the WABCO and VALX spare parts networks
- Easy to inspect and maintain