



WELCOME YOU!



Valx axles. The smart alternative.

VALX
GOING THE EXTRA MILE

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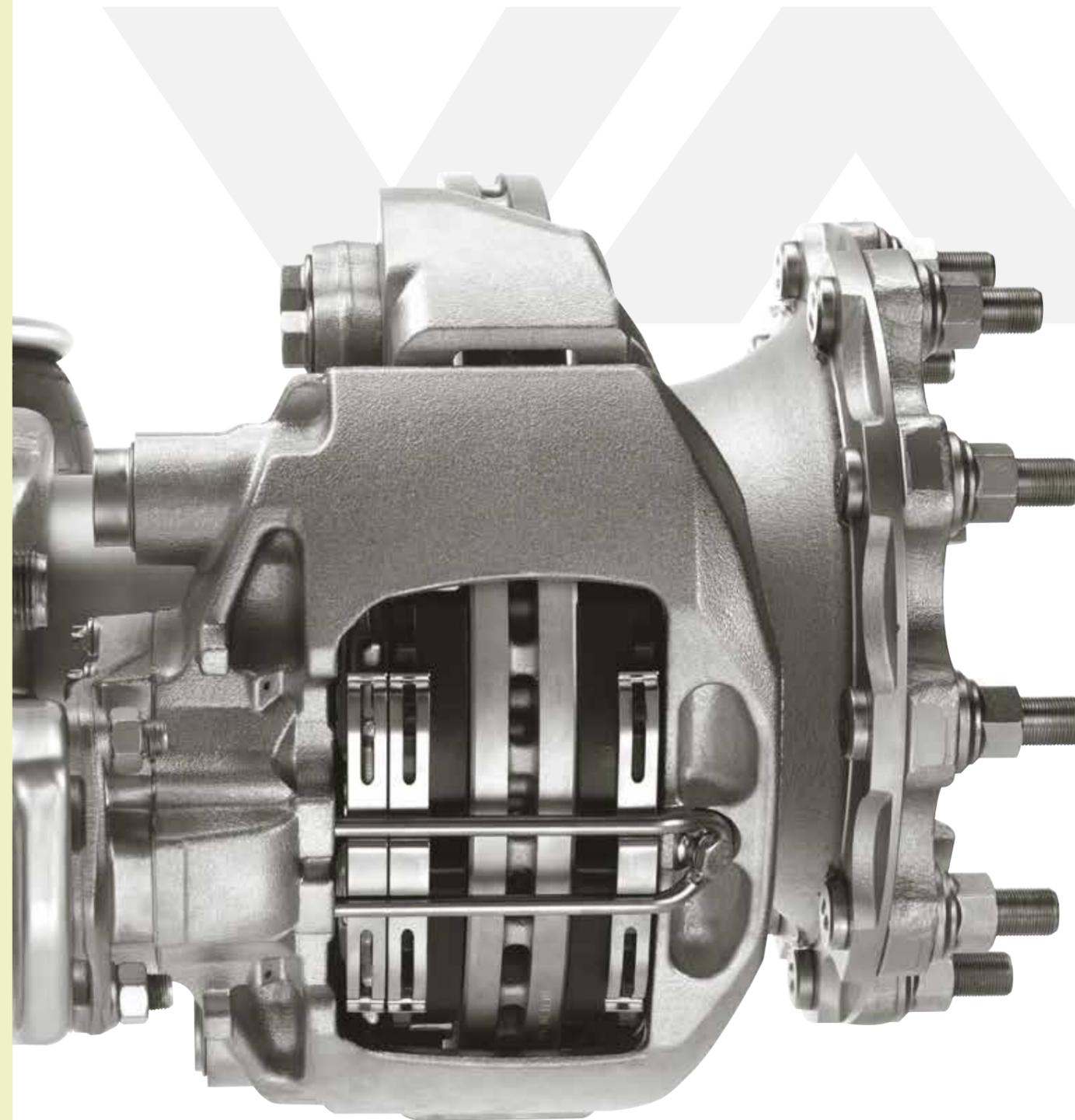
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SHOW YOU!



It's time for a fresh approach on the European trailer axles market. A concept that brings new value to trailer builders and fleet operators. That's designed, assembled and tested in Europe to deliver outstanding long-term durability, reliability and safety.

Using proven methods and trusted components from the world's top suppliers, we've created a new range of axles to cut your cost of ownership with absolutely no compromise in quality. We invite you to try this new concept for yourself. It's time for VALX!



“A down-to-earth, common-sense approach that delivers on the real needs of European trailer builders and fleet operators.”

VALX. Quality-driven with a down-to- earth approach.

Quality is key in every aspect of the VALX axle concept. It starts with a simple but smart design based on thoroughly proven technology. Manufactured in one of the world's newest and most advanced factories. And subject to intensive quality control at every stage. The finished product has been tested to the limit, and beyond. On the testbed, on test tracks and on the road. All to maximise reliability, and to keep your costs down at every stage.

State-of-the-art manufacturing

VALX stands for a breakthrough in the European trailer axles market. Not with untested innovations whose long-term performance is no more than guesswork. Or with components chosen more for cost savings than for durability.

But instead, with a down-to-earth, common-sense approach that delivers on the real needs of European trailer builders and fleet operators. The main axle beam is built in one of the world's newest and most advanced factories. Using state-of-the-art machine tools and the most critical quality



The VALX headquarters are centrally located in Valkenswaard, the Netherlands.

VALX is a new organisation that is dedicated to 'going the extra mile' to meet the real needs of its customers.



control procedures applied to every single unit. The result is an unequalled combination of strength, lightness, ruggedness and reliability.

No-compromise component choice

After that, the basic axle unit is assembled with components selected from Europe's leading manufacturers in their respective categories. For example air disk brakes from WABCO, that are designed, tested and manufactured to the highest standards. High-performance friction materials from TMD Textar. MBS air suspension from technology leader VDL Weweler. Bearings and seals from Timken and SKF, two of the world's most renowned brands. These are components that have earned a reputation for quality, and that give the assurance of a long lifetime with low maintenance requirements, together with easy, widespread availability of spares and service parts.

All aspects that contribute to keeping trailers on the road for longer, minimising repair times and - in the long run - minimising your Total Cost of Ownership.

Tested, tested and tested

Testing is an essential part of the VALX concept. We're not just talking about a few strength tests and a couple of weeks on a test track. Instead, our axles have been subjected to one of the most exhaustive test programmes ever seen in the trailer industry. Starting with the basic axle beam, through the complete axle assembly, and ending with extended track and road tests at a wide variety of locations. The statistical data generated by these tests gives us the confidence to offer a warranty equal to the highest in the industry.

A new organisation, a new approach...

“We're a new organisation, but that doesn't mean we don't know anything about road transport. Our parent company MCB has nearly 50 years of experience in marketing and service of trailer axles and components. I myself have been in the industry for over 20 years. And we have a team to be proud of: motivated and experienced specialists who understand your requirements and are dedicated to meeting them.

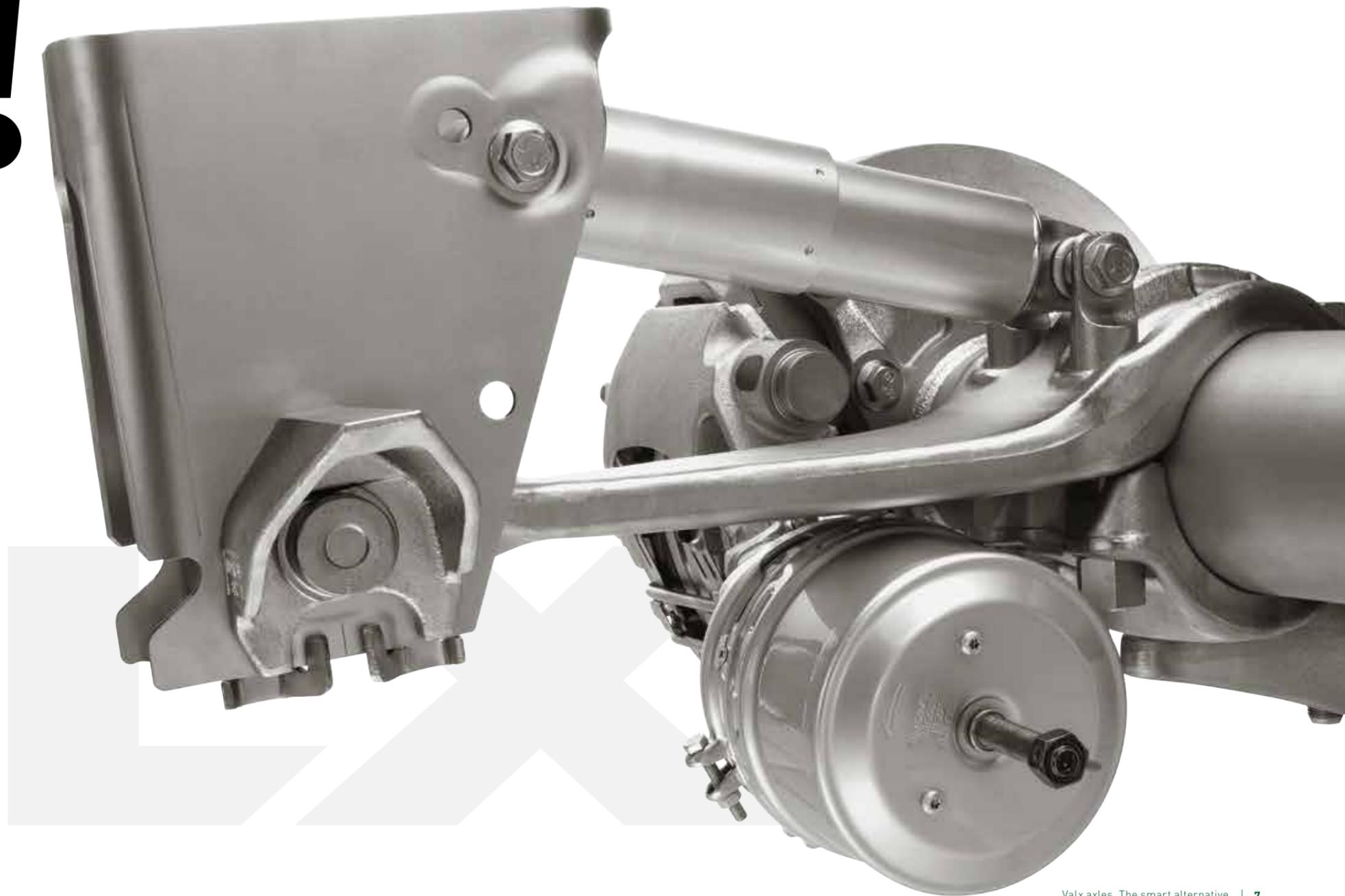


Next to our products, what's really new and different about VALX is the way we work. We're big enough to get the job done, but small enough to make personal contacts count. We're open to new ideas, whether they're our own, from our business partners or our customers. And we have a flexible approach. So once we believe in something, we go for it. All the way. That's what we mean by 'Going the extra mile'. Try us, and find out for yourself!

**- Mark Engelen,
Managing Director, VALX -**

EXPLAIN YOU!

VALX delivers a new experience in trailer axle design. With no compromise in any vital area. Our axles are not the cheapest, and nor are they the lightest. But our pricing is very competitive with the established top brands. And our weight is within a few kilograms of the lightest. Which is highly acceptable in relation to the outstanding durability that we've designed in, built in and tested in. Durability that translates into high reliability and unmatched Total Cost of Ownership. That's what you'll experience with VALX!



Smart design that gives you a competitive edge.



The hub design focuses on safety and reliability, with highly accurate CNC machining and a wide bearing spread to minimise bearing loads.

Reliability, safety, cost of ownership - high performance against these criteria depends most of all on good product design. That's why our design team, guided by UK axle and suspension specialist Les Price together with a carefully selected group of market experts, chose a design that is smart but at the same time based on proven and tested concepts. A design that reduces risks to the absolute minimum. Focusing on strength instead of lightness alone. On consistent, high-quality manufacturing. And on easy, foolproof serviceability. All aimed at giving your operations a competitive edge.

Seamless, non-welded axle beam

The axle construction starts with an extremely strong seamless, cold-drawn beam design. The basic beam structure is non-welded, eliminating risks of possible weakening or material degradation. This axle beam has a higher strength-to-weight ratio than any other in Europe. With stiff, thickened spindle walls to minimise

fretting for ease of hub removal, induction-hardened and ground journals and rolled threads, the VALX axle beam forms the basis for long-term durability under tough operating conditions. External protection against adverse environments is provided by surface treatment for effective and long-lasting corrosion protection.

Long-life wheel ends

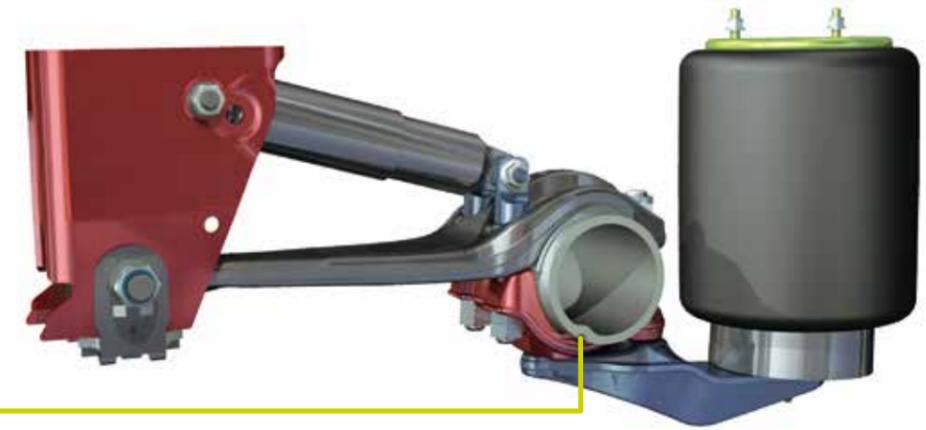
The hubs are for zero and 120 mm offsets and 19.5 or 22.5 inch wheel sizes. Design is focused on safety and reliability. Highly accurate CNC machining and reduced tolerances on bearing dimensions ensure accurate pre-setting of the bearing system and an even pressure distribution across the bearing cups, preventing any spinning of the outer ring in the hubs. The wide 132 mm bearing spread minimises bearing loads and maximises bearing life, while reducing sensitivity to brake heat transfer. The tapered roller bearings are based on the most common bearings in Europe, and have been specifically designed to maximise performance and reliability.



The VALX 22,5" Disk brake axle with hub offset of 120 mm.



The suspension mount, with a groove in the axle beam, uses no welds or U-bolts for maximum strength and durability of the axle.



Proven brakes with detail improvements

Both disk and drum brake systems are based on proven designs with numerous detail improvements. The ventilated brake disks are manufactured by WABCO, with a special metallurgical composition to optimise thermal performance. The drum brakes have been developed with the support of prof. Andrew Day of the University of Bradford, UK. The design offers high efficiency, thermal and mechanical stability and low peak stresses, together with consistent and predictable brake performance.

Rugged air suspension mounting

The air suspension has been specially developed by VDL Weweler to meet the VALX philosophy of light weight, low component count and minimal maintenance. A comprehensive range of ride heights and offsets can be accommodated using only one type of shock absorber, air spring and hanger bracket, and just two different tail ends. This unique solution means fewer components, thereby simplifying production logistics. Instead of using conventional welded axle seats, the suspension is clamped around the axle and held in place by a groove in the beam. This clamping does not use

U-bolts, and the combination with the VDL Weweler groove design offers customers a unique modularity in spring track, ride height and offset. Furthermore, the non-welded construction ensures maximum strength and improves the service life of the axle.

Design for serviceability

Numerous details of the VALX axle underline the 'design for serviceability' concept. For example correct bearing preload - which is crucial for

reliability - is supported by the highly accurate tolerances of all related components, and only requires the tightening and locking of a simple nut. The optional innovative end-nut design automatically produces the right preload simply by tightening until it slips, making assembly virtually foolproof.

When the hub is removed the bearings are retained in place by circlips, protecting them against dirt entry and simplifying reassembly. Removal and replacement have

been proven to be extremely simple. The clamped air suspension mounting makes a further contribution to easy assembly and maintenance. All these details are designed to make many tasks easier and less critical to carry out during routine maintenance.

"No risks design philosophy"

"Our key focus in designing the VALX axle was creating a robust concept that would consistently enable the highest-quality manufacturing. In effect we have slightly over-designed some of the most important aspects of the axle, putting the emphasis on safety and reliability. We didn't compromise on those requirements at any stage. Although the weight we've achieved is competitive, we're convinced that our design is among the strongest.

Our 'no risks' philosophy applies equally to our selection of components. Industry-leading brands with long track records supply all our critical components, such as bearings and seals, brakes and friction materials, and air suspension units.

Although we've avoided untested innovations, we haven't been afraid to depart from standard practice where that delivers clear benefits. Just two examples are the ultra-strong seamless, non-welded axle beam and the easy-to-assemble clamped suspension mounting.

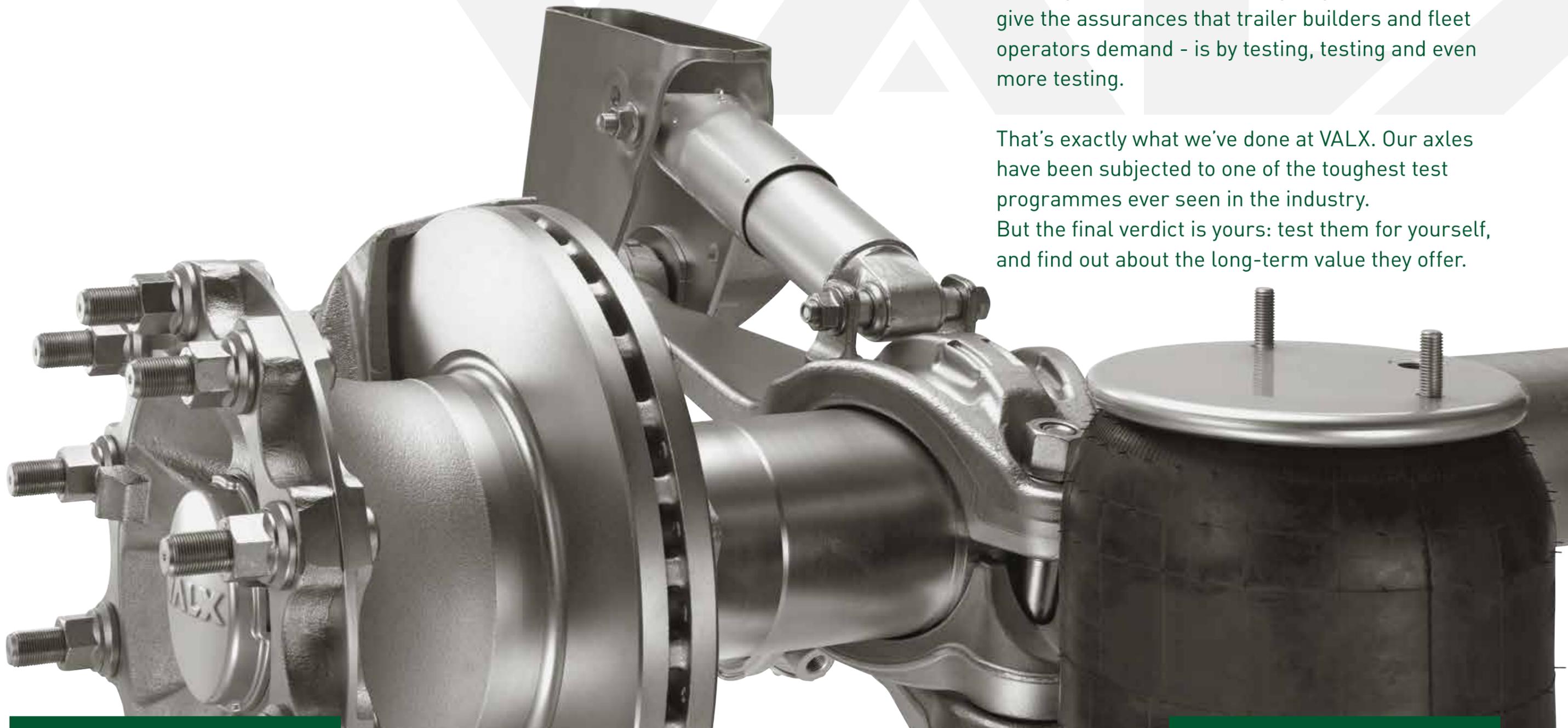
Thanks to the design choices we've made, together with state-of-the-art design, analysis, manufacturing and a massive test programme, we have full confidence in the long-term durability of our axle over many kilometres, and in the low Total Cost of Ownership it will offer."

- Les Price,
Managing Director LPA and Technical Advisor to VALX -

PROVE YOU!

There's no short cut to signing off a new product that's subject to conditions as demanding as those faced by trailer axles. The only way to do it - and to give the assurances that trailer builders and fleet operators demand - is by testing, testing and even more testing.

That's exactly what we've done at VALX. Our axles have been subjected to one of the toughest test programmes ever seen in the industry. But the final verdict is yours: test them for yourself, and find out about the long-term value they offer.





Tested, tested and finally tested.

The VALX axles have been subjected to an exhaustive and demanding test programme - on the testbed, on the test track and in the field. In every case, the aim was to subject our axles to conditions that are realistic but far tougher than those encountered in normal operation. Conditions that greatly accelerate everyday wear and tear, revealing any potential weaknesses that may arise in years of service. Those tests give us the confidence of many years of reliable performance in trailer fleets.

Extensive programme of lab tests

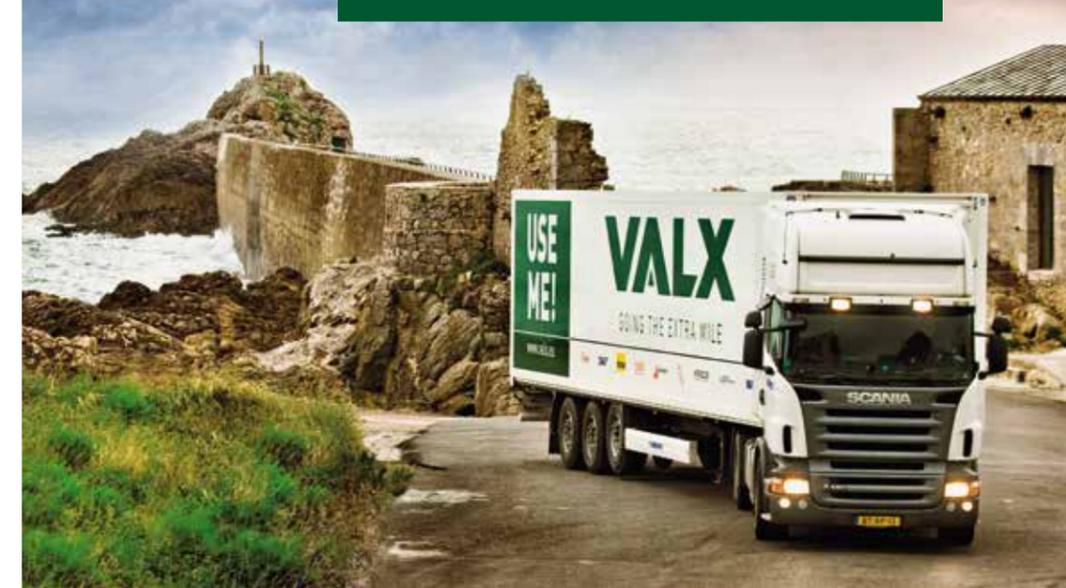
In the lab test programme, the axle beam, all major components and complete axles are subjected to an extensive range of tests to determine the stress limits and failure modes. Many of these tests are industry-standard, while others are specified and standardised by certification bodies such as TÜV. Tests have been carried out at a number of facilities, including the renowned MI Technology automotive test center in Leyland, UK.

The results from lab tests of this kind are valuable because they allow benchmarking against comparable, established products, and they also

form the building blocks of next-generation designs. Correlations with actual operating conditions are in many cases known, allowing valid conclusions to be drawn about product lifetime under a wide range of actual operating conditions. For example, one of these tests - the biaxial hub test (Rumul) - involves wheel load cycles corresponding to 500,000 km of severe usage, or 1 million km of urban operation.

Testing on the world's toughest tracks

Testing to the limits and beyond, over and over again... our track tests programme included tens of thousands of kilometres of rough roads, pavé, corrugations, kerb



Testing the VALX axles in extreme operating conditions: from the arctic circle to mountain passes in southern Europe.

strikes, emergency stops, water troughs and many more. Trailers and axles were subjected to obstacles like these at proving grounds in the UK (MIRA), the Netherlands (DAF) and China (Ding Yuan), which are recognised as among the world's toughest test facilities. The extended programme of durability tests simulated distances of over 1 million kilometres at each location. In the case of MIRA, this distance corresponds to an even greater service distance based on operation on Western European roads. Also part of the test programme was extensive analysis of the data generated, to allow correlation and interpretation of the results.

Exhaustive test programme:

The VALX test programme is divided into component, assembly, proving ground and field testing.

Component testing:

- Mechanical and thermal tests on the disk, drum and friction pairs
- Laboratory testing of the axle and suspension structural components to simulate critical load cases such as cornering, scrubbing and Ro-Ro
- Specialised testing carried out by suppliers such as bearing preload, fatigue and creep testing, and seal behaviour

Assembly testing:

- Laboratory-based full unit roll, scrub, braking, Ro-Ro and impact load simulations, including a full trailer multi-axis rig test
- Rotating load hub bending and biaxial hub testing (LBF)

Proving ground testing:

- Three correlated proving ground tests have been completed, each representing a full trailer lifetime

Field testing:

- A range of field test trailers are currently in service, including tankers in severe applications

Proof of the pudding: field testing

Of course lab and track tests provide essential data about performance and durability under the most extreme conditions. But there's still no substitute for road tests in actual trailer operation. These provide the final validation of the test findings, and give the confirmation that reliability and durability in the field will at least match up to expectations. For that reason we've tested the VALX axles over many thousands of kilometres in many different fleet applications and environments: from mountain ranges to arctic circle, on all kinds of surfaces, and with a wide range of loads including flat-bed trailers and tankers.



Tests carried out by WABCO on the disk brake components include disk wear, crash testing and chukka testing.

Among the test facilities used is the renowned MI Technology automotive test centre in Leyland, UK.

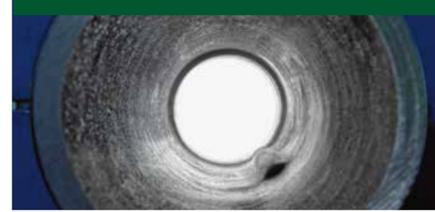
Roll and scrub simulation tests carried out by VDL Weweler on the axle and suspension assembly.

Thorough bearing testing by Timken, including bearing preload, raway fatigue and cup creep.

Testing at the MIRA and DAF proving grounds in the UK and Netherlands, recognised as among the world's toughest. The tests simulated distances of 1 million km or more under normal Western European road conditions.



The specially designed drum brakes offer high efficiency and stability, for consistent, predictable brake performance.



The VALX groove is forged in the axle beam. Outstanding strength is ensured by the axle clamping, which requires no welds or U-bolts.



The axle beam is built in one of the world's newest and most advanced factories. The seamless cold-drawing process results in an extremely strong non-welded structure, eliminating possible weakening.



TEXTAR

Textar is manufactured by the TMD Friction Group, one of the world's largest producers of brake friction materials. Textar is TMD Friction's leading brand for commercial vehicle applications, and is fitted by leading brake and vehicle manufacturers worldwide. 70% of Europe's commercial vehicles fitted with linings are originally equipped with Textar. Textar is at the forefront of disk brake technology, and is the leading OEM supplier in the rapidly growing commercial vehicle disk brake segment.

VDL Weweler

VDL Weweler - 'the masters of suspension' - is the only European spring manufacturer with its own range of air suspension system solutions, all based on the use of its own parabolic trailing arm design. The high level of modularity allows only two different suspension units to be used for all trailer ride heights and wheel offsets, reducing the component count and simplifying parts logistics. Outstanding strength is ensured by the axle clamping, which requires no welds or U-bolts.

WABCO

WABCO is a leader in heavy commercial vehicle brake solutions, with a 140-year track record in offering the optimum combination of weight and performance. We selected WABCO disks, callipers and related components as the basic fitment for our disk brake axles. WABCO's PAN 19-1 and PAN 22-1 calliper types are standard fitment. Ventilated disks to VALX design ensure excellent brake cooling. The universal WABCO/VALX calliper is field-replaceable by other standard components for optimum serviceability.

SKF

SKF is a leading global supplier of bearings, seals and related products. For the VALX axle hub SKF supplies the specially developed Scotseal PlusXL, made of high-temperature resistant, long-life HNBR rubber, which is vital to exclude dirt and moisture from the wheel bearings. Together with the bearings themselves, the seals are retained in place by a circlip when the hub is removed, simplifying service and maintaining the integrity and cleanliness of the hub assembly.

TIMKEN

Where You Turn

Timken is a global bearing and friction-management leader, and supplies the specially machined, high-durability tapered roller wheel bearings specified for first fitment on the VALX axles. These are based on widely used industry-standard bearing types, and are also available as spare parts through the Europe-wide VALX and Timken service networks.



In line with the strong design focus on quality and reliability, VALX has selected renowned, industry-leading suppliers for all key components of its new axle range. The proven reputation and track record of these suppliers forms an essential part of our proposition to trailer builders and fleet operators: safety, durability and low Total Cost of Ownership over many years of operation.

An axle you can build your business on.

Standard parts for easy availability
Next to proven quality, another advantage of using components from leading manufacturers is ready availability of spare parts at nearly all locations. This makes a big contribution to keeping service and repair times down to an absolute minimum, so your trailers are back on the road with minimum delay.

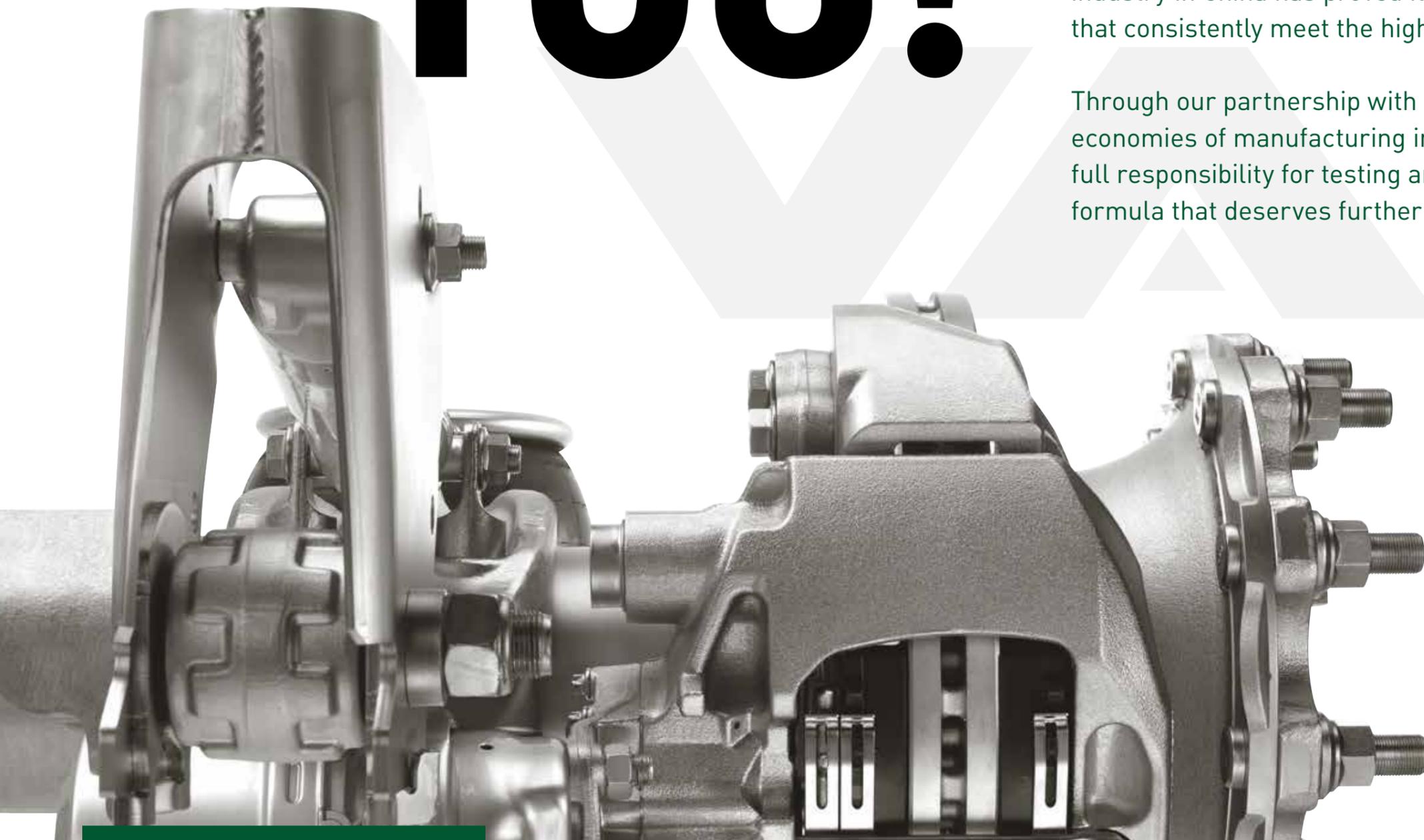
Custom-developed components
In many cases we have worked together with suppliers to develop custom component and assembly designs meeting our specific requirements. Using their expertise and experience, we have worked together to create solutions that form an integral part of the VALX total concept of high safety and reliability.

Proven and tested concepts
All components used in the VALX axles are well-proven in their own right. But before specifying them for use in our axles they have again been rigorously tested, both separately and in combination with their respective assemblies. With the aim of giving us the assurance of the highest possible overall fitness-for-purpose.

CONNECT YOU!

Explore the world of VALX axles! In today's economic situation, you can't ignore realities like the benefits of outsourcing to the most cost-effective locations. Or the fact that manufacturing industry in China has proved its capability to deliver products that consistently meet the highest quality demands.

Through our partnership with Fuwa, we benefit from the economies of manufacturing in China while ourselves retaining full responsibility for testing and quality. That's a success formula that deserves further exploration!



Built in one of the world's most advanced factories.

The VALX axle beam is built in one of today's most advanced factories operated by Fuwa, the world's largest axle manufacturer. This major facility is located in Taishan City, in the Guangdong industrial region, and has an area of 1.6 million square metres and around 4,000 employees. Production for VALX is in a dedicated and separate hall which was opened in early 2010.

The plant is characterised by world-class production, testing and quality assurance facilities, all under expatriate Western management and supervision.



The VALX axle beams are built in a world-class facility, with an area of 1.6 million square metres and around 4,000 employees.



Highly automated manufacturing facilities

Consistently high-accuracy production is ensured by the availability of state-of-the-art, highly automated equipment, including more than 600 of the latest CNC machine tools. Processes such as hot-forming and heat treatment are PLC-controlled, reducing manual labour to a minimum and supporting accurate, reproducible process performance.

Industry-standard quality assurance systems

The highly detailed quality assurance procedures are based on intensive checking of all processes and products following Six Sigma practices. We have a permanent on-site presence with our own quality staff to monitor these procedures.

The quality assurance systems are based on the application of the ISO/TS 16949 quality management standard

for the automotive and related industries. This standard is mandatory not only in the plant itself, but also for suppliers, ensuring full process and component traceability right through the supply chain. It forms the basis for a recognised and accepted quality level, that meets the needs of customers among European trailer builders and fleet operators. The factory is also qualified under the ISO 9001 (quality management)

and ISO 14001 (environmental management) standards.

State-of-the-art inspection and measurement

As well as excellent process control, careful dimensional checking is an essential requirement for consistently high production quality.

Automated laser measuring systems are used to verify the accuracy of each stage of the manufacturing and machining processes, as well as critical

dimensions such as those of the bearing mounts. Critical castings such as those for the wheel hubs are subjected to extensive X-ray inspection to ensure freedom from faults.

Industry-standard tests and release procedures are followed at every stage. These procedures ensure that the quality of our Fuwa-manufactured axle components is at least equal to that of equivalent components manufactured anywhere in the world.

Excellent logistics links

Fuwa's location in Guangdong, China, has its own wharf for fast, direct connections to shipping and excellent logistics links with the European markets. This ensures relatively short supply lines and the ability to meet customer demand quickly.



Close control right through the chain...

"No compromise is an essential part of our mission at VALX. Right from the start we've been totally committed to the strength, durability and reliability of our axles. But at the same time we wanted to offer new value by benefiting from the economies available in the Chinese supply chain.

Our experience is that those aims are perfectly compatible. The key is our close control right through the chain. We have a permanent on-site presence, with Western quality and process engineers and consultants. That means we're actively involved at every stage of the process. From design, through all the various casting and machining operations, right through to in-process and final testing. We use state-of-the-art methods and equipment, for example in CNC machining and dimensional accuracy control. And we carry out thorough testing including X-ray inspection.

All those measures, and all that involvement, give us total confidence in our axles, which is reflected in the results of our exhaustive test programme. Most of all, it means a product you can depend on for your business, day in and day out."

**- Bram Uijen de Kleijn,
Quality & Process Manager, VALX -**





SUPPORT YOU!

Confidence in your supplier of course starts with the product itself. That must have the right fitness-for-purpose and the right quality level for the tasks it has to perform. But once that is assured - and it certainly is in the case of the VALX axles - there are other things to consider.

First and foremost is service. There must be an effective support network for regular maintenance, spare parts and emergency response. We've taken care of that at VALX, with both existing and new partners to provide the support you need, when and where you need it. That's the basis on which you can trust VALX!

Strong European presence for a reliable partnership.

VALX has ensured that adequate service facilities are in place on a Europe-wide basis right from the start of OEM sales. With these facilities, VALX axle users can count on fast and effective local service anywhere in Europe. This support will make sure that, in case of any problems, trailers are back on the road in the shortest possible time, keeping costly downtime and delays to an absolute minimum.

The quality and reliability of VALX axles are backed up by a warranty equal to the best in the industry today on the main axle beam and all key components*.

Final assembly in the Netherlands

Final axle assembly is carried out by VALX in the Netherlands. This optimises the supply chain from the various component manufacturers in Europe. At the same time it allows a rapid response to specific customer requirements, with short lead times for the delivery of

finished axles from stock. In addition, the VALX logistics centre in Venlo, the Netherlands, has an ideal central location to serve the European markets efficiently.

Extensive after-sales and service network

Service is available through the existing VALX service &

support network of around 300 trailer partner repair shops across Europe. To support operators with urgent service requirements, international, multi-language emergency support facilities are operated centrally on a 24/7 basis by the specialist company EBTS.

The help line can be reached 24/7 at 00800 VALXVALX or

00800 82598259 from the Netherlands and Germany, and at 00 31 40 2088777 from all other countries. A specialised sales and technical service team for the UK will also be available.

Full information about emergency support facilities is available on the VALX website

** For full warranty information see terms & conditions available on request or at www.valx.eu*



(www.valx.eu). All these facilities give users the assurance of a rapid service response at virtually any location across Europe.

Europe-wide spare parts coverage

Readily available spare parts supplies are assured through a network of around 300 locations throughout Europe. Of these locations, 210 are

operated by our partner Europart. To ensure full Europe-wide coverage, the rest are professional spare parts distributors in other areas. All these locations keep extensive stocks of all normally required wear and other replacement parts. Further support for urgent supply of parts not stocked locally is provided by an online ordering facility with an express delivery service or

even an overnight delivery service if required from VALX in the Netherlands to nearly all locations in Europe.

Comprehensive training and support facilities

Training, service tools and service information are essential parts of effective service support and VALX has ensured that these facilities are in place right from the

start. Full repair instructions are directly accessible on the VALX website, and training modules in the main European languages will be made available online. In addition, training sessions are planned for all major countries in Europe to familiarise technicians with all aspects of VALX axle service.



The VALX axles offer proven value for many applications, for example in Ro-Ro and Huckepack environments.



International, multi-language emergency support facilities are available 24/7 through the central VALX help line.



Service is available through a network of around 300 trailer partner repair shops across Europe.

Meeting the needs of the widest possible range of mainstream semi-trailer applications, VALX offers an initial programme of six axle types. These cover most popular trailer designers and operator preferences, with a choice of 19.5 or 22.5 inch wheel sizes, disk or drum brakes and 0 mm or 120 mm wheel offsets. The full range of regular ride heights can be met by the MBS air suspension, with only minimal component changes.



Disk brake types

- Hub offset 0 mm - 19.5 inch
- Hub offset 120 mm - 19.5 inch
- Hub offset 0 mm - 22.5 inch
- Hub offset 120 mm - 22.5 inch

Drum brake types

- Hub offset 0 mm - 420 x 180 mm
- Hub offset 0 mm - 360 x 200 mm



OFFER YOU!

VALX AXLES

Axle load	9000 Kg
Wheel size	22.5"
Axle beam ⁽¹⁾	1 piece ~ ø 146x10
Hub offset	120 / 0 mm
Wheelbolts and dimensions	10 ~ M22 x 1.5
Wheel Bolt Circle	335 mm
Brake	WABCO
Brake dimensions	Pan 22-1
Bearings	Timken : B-145662 ~ B-145649
Bearing setting ⁽²⁾	Full Proof Preloaded
Tyre mounting	Single
Paint system	E-coating
Seal ⁽³⁾	SKF 4 lip
Air suspension	Weweler MBS
Clamped on axle beam ⁽⁴⁾	Yes
Ride height ⁽⁵⁾	210 - 420 mm
Air spring ø	300 / 330 mm
Air spring offset	0 / 25 / 50 / 65 / 90 mm
L1 / L2	520 / 320 mm
Hanger bracket height welded (bolted)	235 (241) mm
Hanger bracket bracing	flexible design
Axle lift	Optional
Hubodometer	Optional

DISK 430

Axle load	9000 Kg
Wheel size	22.5"
Axle beam ⁽¹⁾	1 piece ~ ø 146x10
Hub offset	120 / 0 mm
Wheelbolts and dimensions	10 ~ M22 x 1.5
Wheel Bolt Circle	335 mm
Brake	WABCO
Brake dimensions	Pan 22-1
Bearings	Timken : B-145662 ~ B-145649
Bearing setting ⁽²⁾	Full Proof Preloaded
Tyre mounting	Single
Paint system	E-coating
Seal ⁽³⁾	SKF 4 lip
Air suspension	Weweler MBS
Clamped on axle beam ⁽⁴⁾	Yes
Ride height ⁽⁵⁾	210 - 420 mm
Air spring ø	300 / 330 mm
Air spring offset	0 / 25 / 50 / 65 / 90 mm
L1 / L2	520 / 320 mm
Hanger bracket height welded (bolted)	235 (241) mm
Hanger bracket bracing	flexible design
Axle lift	Optional
Hubodometer	Optional

DISK 370

Axle load	9000 Kg
Wheel size	19.5" / 22.5"
Axle beam ⁽¹⁾	1 piece ~ ø 146x10
Hub offset	120 / 0 mm
Wheelbolts and dimensions	10 ~ M22 x 1.5
Wheel Bolt Circle	335 mm
Brake	WABCO
Brake dimensions	Pan 19-1
Bearings	Timken : B-145662 ~ B-145649
Bearing setting ⁽²⁾	Full Proof Preloaded
Tyre mounting	Single
Paint system	E-coating
Seal ⁽³⁾	SKF 4 lip
Air suspension	Weweler MBS
Clamped on axle beam ⁽⁴⁾	Yes
Ride height ⁽⁵⁾	210 - 420 mm
Air spring ø	300 / 330 mm
Air spring offset	0 / 25 / 50 / 65 / 90 mm
L1 / L2	520 / 320 mm
Hanger bracket height welded (bolted)	235 (241) mm
Hanger bracket bracing	flexible design
Axle lift	Optional
Hubodometer	Optional

VALX AXLES

Axle load	9000 Kg
Wheel size	22.5"
Axle beam ⁽¹⁾	1 piece ~ ø 146x10
Hub offset	0 mm
Wheelbolts and dimensions	10 ~ M22 x 1.5
Wheel Bolt Circle	335 mm
Brake	VALX drum
Brake dimensions	420 x 180 mm
Bearings	Timken : B-145662 ~ B-145649
Bearing setting ⁽²⁾	Full Proof Preloaded
Tyre mounting	Single
Paint system	E-coating
Seal ⁽³⁾	SKF 4 lip
Air suspension	Weweler MBS
Clamped on axle beam ⁽⁴⁾	Yes
Ride height ⁽⁵⁾	210 - 420 mm
Air spring ø	300 / 330 mm
Air spring offset	0 / 25 / 50 / 65 / 90 mm
L1 / L2	520 / 320 mm
Hanger bracket height welded (bolted)	235 (241) mm
Hanger bracket bracing	flexible design
Axle lift	Optional
Hubodometer	Optional

DRUM 420

Axle load	9000 Kg
Wheel size	22.5"
Axle beam ⁽¹⁾	1 piece ~ ø 146x10
Hub offset	0 mm
Wheelbolts and dimensions	10 ~ M22 x 1.5
Wheel Bolt Circle	335 mm
Brake	VALX drum
Brake dimensions	420 x 180 mm
Bearings	Timken : B-145662 ~ B-145649
Bearing setting ⁽²⁾	Full Proof Preloaded
Tyre mounting	Single
Paint system	E-coating
Seal ⁽³⁾	SKF 4 lip
Air suspension	Weweler MBS
Clamped on axle beam ⁽⁴⁾	Yes
Ride height ⁽⁵⁾	210 - 420 mm
Air spring ø	300 / 330 mm
Air spring offset	0 / 25 / 50 / 65 / 90 mm
L1 / L2	520 / 320 mm
Hanger bracket height welded (bolted)	235 (241) mm
Hanger bracket bracing	flexible design
Axle lift	Optional
Hubodometer	Optional

DRUM 360

Axle load	9000 Kg
Wheel size	19.5"
Axle beam ⁽¹⁾	1 piece ~ ø 146x10
Hub offset	0 mm
Wheelbolts and dimensions	8-10 ~ M22 x 1.5
Wheel Bolt Circle	275 / 335 mm
Brake	VALX drum
Brake dimensions	360 x 200 mm
Bearings	Timken : B-145662 ~ B-145649
Bearing setting ⁽²⁾	Full Proof Preloaded
Tyre mounting	Single
Paint system	E-coating
Seal ⁽³⁾	SKF 4 lip
Air suspension	Weweler MBS
Clamped on axle beam ⁽⁴⁾	Yes
Ride height ⁽⁵⁾	210 - 420 mm
Air spring ø	300 / 330 mm
Air spring offset	0 / 25 / 50 / 65 / 90 mm
L1 / L2	520 / 320 mm
Hanger bracket height welded (bolted)	235 (241) mm
Hanger bracket bracing	flexible design
Axle lift	Optional
Hubodometer	Optional

⁽¹⁾ Best strength / weight ratio
⁽²⁾ Separate tapered roller bearings
⁽³⁾ Wear parts inside

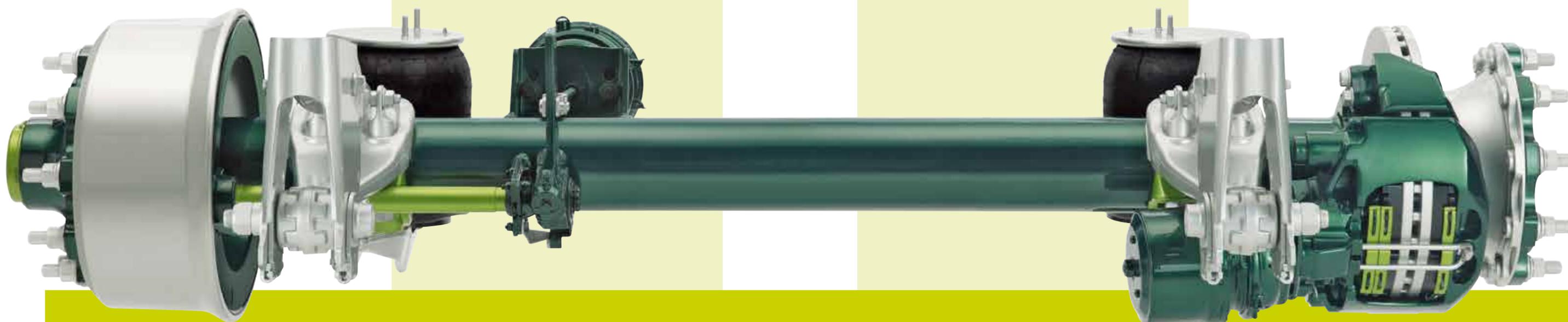
⁽⁴⁾ No welding for air suspension needed on axle beam
⁽⁵⁾ Ride height minimum is adjustable by fitting a bump-stop to the chassis of the trailer



VALX axles are available from stock or for early delivery from the VALX works in Valkenswaard, the Netherlands. For further details about products, applications, specifications and availability, please contact us! You'll find our contact details on the back of this brochure.

We'll provide you with fast and detailed support. You can also read our product leaflets to choose your type of axle.

Visit our website www.valx.eu to discover all information about VALX! The smart alternative.



SUPPLY YOU!

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