

the art of working sideways



CAVAION SIDELOADERS
BAUMANN 



In several countries, and mostly for historical reasons or customer preference, Baumann sideloaders are delivered in red and white livery. Rest assured, 'Baumann Rosso' are identical in specification and quality!

Welcome to Baumann Sideloaders



Based in Cavaion in Italy, our family-owned company has led the sector for over 50 years, allowing us to sell our products worldwide through 106 dealers in 76 countries.

Cavaion Veronese, near Verona, has been home to Baumann since 1969, with the factory more than tripling in size over the years, as the company grew.

The location of 'Cavaion Sideloaders Baumann' was said to have been selected for its proximity to a renowned nearby technical school by owner, Wolfgang Baumann, who believes craftsmanship "permeates the local culture".

Baumann is a world-class manufacturer of sideloaders from three to 60 tonnes capacity - with a reputation for consistent innovation, and the highest level of design and productivity.

Our comprehensive range of sideloaders handle a multitude of products, typically considered long or bulky, and most commonly timber and steel.

Nevertheless, our machines are also specified to suit the demands and nuances of plastic, concrete and other manufacturing sectors.

And because we build machines to last, we value loyalty, longevity and experience very highly.







Practical Innovation

Uniquely, most of our attachments are mounted integrally, minimising any loss in load capacity or usable platform width.

Our R&D efforts have also focussed on alternative power, as demonstrated by our superb hydrogen fuel cell truck, the H2GX.

The blending of innovation, productivity and durability.

Our machines can cope with almost anything you can throw at them. Their solid steel outreach cylinders and bearings can be up to 50% larger than any other sideloader on the market.

Our chassis are built to exacting standards, while our masts have a unique profile designed for the unique demands of working sideways.

Toughness is just one of the secrets to our success, helping our equipment to be known worldwide for its durability and reliability.

Baumann is also renowned as an innovator, especially in the important areas of safety, environment and productivity. That's why

we were winners of the Fork Lift Truck Association's Excellence Awards in 2016 and 2019, and finalists in 2017.

We have a strong reputation for our ability to customise standard models around a customer's specific needs as well as being a reliable and professional partner in after-sales and technical support.

Our panoramic operator cabs offer the very latest technology, efficient use of space and high levels of ergonomics. The driver not only benefits from comfort, but excellent visibility and machine status information.

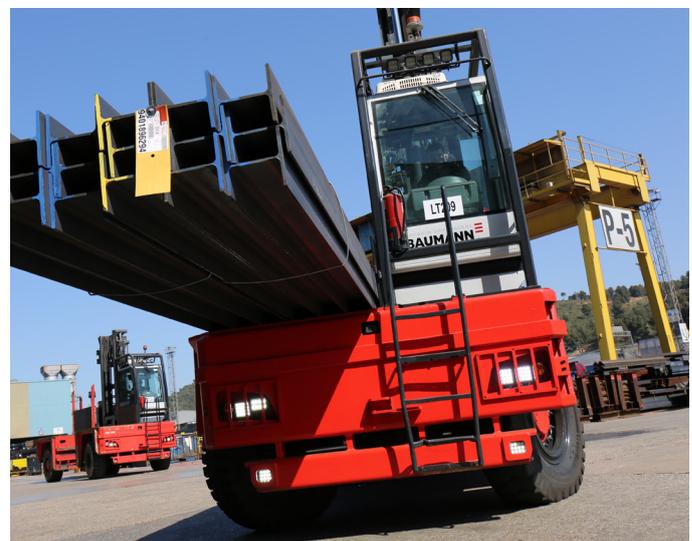
We introduced a new method of traversing the mast, the Archimedes Outreach System and further enhanced this for even great

durability and control with our Variable Reach System (VRS).

With VRS, the addition of a bespoke valve block, modified chassis and additional guide bar to increase inertia resistance has allowed us to double the Archimedes spindle thread size and corresponding number of bearings.

The result is a halving of the pressure required between the two, providing even greater accuracy and the ability to seal the spindle head to prevent contamination.

It all adds up to an enviable package blending the perfect levels of innovation, productivity and durability.



Ergonomics

Our panoramic cabin provides excellent visibility, whilst the high-comfort specification includes naturally placed control levers; uncluttered footwell; deluxe seating; and dual-plane vibration controlled suspension.



Durability

Everything about Baumann is built to last. From the rigid-torsion welded construction to the proven drivetrain, cabin struts and light protectors. It's not just under the bonnet, you can truly feel the difference.



Accuracy

Product development is in our blood. Extra features come as standard on many models, such as full road lighting, hydraulic load sensing and the highly accurate and efficient Archimedes outreach system.



Excellent Options

A host of additional features, including comfort steps, auto-lubrication, rotating seats, video-assisted visibility and engine management systems are all available to add even more productivity to your machine.



THE BAUMANN RANGE

High quality engineering for every long load application.



Compacts: Workhorses from 3 to 5 tonnes capacity

A low platform and small footprint are the key benefits to our smallest machines, whether its the nimble engine-powered HX range, or eco-friendly electric models, ELX and EHX.

The HX and EHX also come complete with the Baumann load stabilizing tilt system, great manoeuvrability and our proven own-design masts.

Models:

EHX 50 (80v)
ELX 30/40/50 (Advanced AC, 120v)
HX 30/40/50 (Diesel)



Mid-Sized: Heavy duty from 5 to 8 tonnes capacity

Our most popular sideloaders are some of our most advanced, performing superbly over long shifts and greater distances.

The 120v electric EGX offers high speeds and long battery life, and its engine powered equivalent, the GX Series, features our innovative VRS system with Archimedes outreach.

Models:

EGX 50/60/70/80L (120v AC-Powered, with VRS)
GX 50/60/70/80L (with VRS)
GS 60/70/80L (with VRS & 20" wheels)
GX 55/60 Compact



Super-Sized: Diesels & bespoke models over 10 tonnes

At the heaviest end of our portfolio, we have two standard diesel ranges, the GS in 10, 15, 16 or 18 tonnes capacity; plus the GX200 for 20 tonnes and GXS250, a 25 tonnes capacity truck with mid-deck mounted engine.

Built to your specifications and our own exacting standards, these big hitters are ideal in heavy industries, container handling or steel applications.

Models:

GS100/150/160/180 (Diesel Only)
GX200/GXS250 (Diesel Only)
GXS300 to 600 (Bespoke Diesel Only Models, 30 to 60 tonnes)



Built to last

A select number of trusted suppliers help with items such as chassis and steering axle development, but a huge amount of work is carried out in-house, from mast creation to wiring looms; painting to welding.

Mast

Baumann masts are specifically designed for the purposes of sideloader applications. The exact profile of the angular mounted mast rollers have been selected to compensate for the axial and radial forces associated with sideways movement, resulting in safer handling and less maintenance.

Visibility remains a strong factor, as does a free-lift facility to just below deck-height. Special free-lift masts and triple masts are also available in a variety of permutations as an option.

Chassis and axles

The chassis is produced in a rigid-torsion welded construction in order to ensure maximum strength. The axles for the GX model also carry the engine and the hydraulic components. Consequently, these parts are not connected directly to the chassis and therefore protected from any unnecessary vibration.

The complete engine and drive assembly is mounted in an individual tray for ease of maintenance and to ensure a lower centre of gravity thus greater stability at higher lift heights.

Engine

The latest traction technology is available in all Baumann sideloaders. High performance and low-emission engines, from established suppliers such as Cummins, Deutz and Hatz, provide generous torque and power.

On newer models, we already fit the new generation Euro Stage IV & V engines (Tier 4 Final EPA/Carb), complying with all current environmental regulations.

Brake system

Most of our sideloaders are equipped with a braking system actuating on all four wheels. The hydrostatic brake applies to the rear drive motors the instant the accelerator pedal is released.

The service brake is activated using the brake pedal and brakes the front axle. Depending on the model, the hand-brake function provides either an electric park brake activation or fully-hydraulic function to the drive wheels.

Maintenance accessibility

The ability to access the machine, together with the fact that our distribution partners train their service technicians in our factory, results in a high-degree of first-time fix with minimum downtime. Spare parts are available through an online system that minimises waiting time.

In dusty environments, the maintenance of the cooling system and engine filters replacements are essential. A large service cover at the rear of the chassis provides direct access to the radiator, which can then be easily cleaned and maintained.

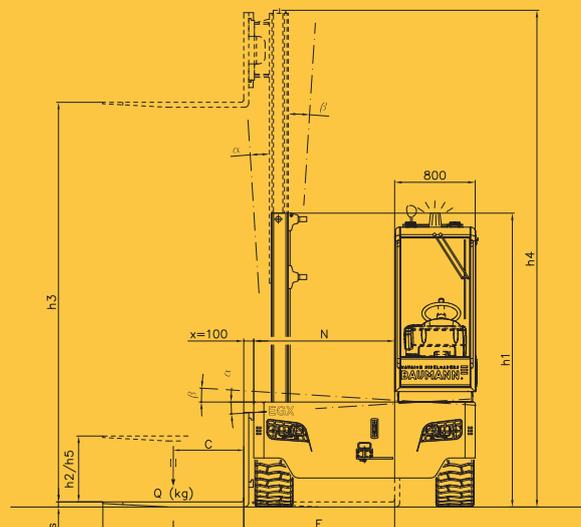
Electrics

EHX 50 (5 tonnes)
ELX 30 to 50 (3 to 5 tonnes)
EGX 50 to 80L (5 to 8 tonnes)

Diesel Only

HX30 to 50 (3 to 5 tonnes)
GX50 to 80L (5 to 8 tonnes)
GS60 to 80L (6 to 8 tonnes)
GS100 to GS200 (10 to 20 tonnes)
GXS250 (25 Tonnes)
GXS300 to 600 (30 to 60 tonnes)

Models Overview





Half a century of excellence

Based in Cavaion in Italy, our family-owned company has led the sector for over 50 years, and now sells its products worldwide through 106 dealers in 76 countries.



Award-Winning Productivity

Our success was recognised in 2016 with the FLTA award for Innovation for our remarkable Archimedes outreach system and again in 2017 with a nomination for our latest high performing electric models. In 2019 we added another award, this time for Environmental excellence.

Supporting Industry

Our emphasis on long-term business relationships and durable machines goes hand in hand. That's why we have worked with many of the world's leading steel, plastics and timber producers for decades.



Unrivalled Support

Our technical support provides excellent back-up to our approved dealer network, whilst online parts ordering means 99% of components are never more than 24 to 48 hours away. We have 39,000 parts catalogued on our online system, and have processed over 110,000 spare part orders since 2008, via 700 users in 4 languages.





CAVAION SIDELOADERS
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Factory Life

"We test at full speed. Up, down, stop, start. On a higher level of work cycle. In real life, equipment is rarely worked as hard."

Klaus Pirpamer, Baumann S.r.l.

Testing at full speed

Baumann's production facility is arranged in halls, producing less than 400 units annually, but each to high levels of durability and engineering integrity.

Fabrication, painting, CNC bays, parts storage and refurbishment are either side of the central assembly hall, whilst around the building exterior, tilting beds and manmade ramps serve as testing facilities.

A select number of suppliers help with items such as chassis and steering axle development, but a huge amount of work is carried out in-house, from mast creation to wiring looms; painting to welding. Per unit, the manufacturing process usually lasts around a fortnight, with up to another week, depending on capacity, set aside for product testing.

"We test at full speed," says managing director, Klaus Pirpamer. "Up, down, stop, start. On a higher level of work cycle. In real life, equipment is rarely worked as hard."

A Rare Breed

Businesses like Baumann are rare. We respect our past whilst looking squarely to the future. We are committed to continuing spare parts availability for all models – that's almost 50 years' worth of designs.

New production techniques and new products are being introduced to ensure there will be plenty more designs in future. The innovations built into the smaller, AC electric powered ELX, could prove even more important than the Archimedes outreach system, for which Baumann gained its first FLTA award.

Unveiled at LogiMAT in 2016, the nimble ELX is now in full production. Klaus has high expectations for the compact model, and has already predicted a doubling of electric model sales. As well as huge savings in weight, allowing a larger, 'intelligent' battery system, the ELX also features a redesigned chassis, new wiring schematic, steering axle and flow matching hydraulic system,





A Great Place To Work

The operator compartment is a critical component in every Baumann sideloader. We work hard to ensure it is as safe and ergonomically-friendly as possible.



A robust chassis is a crucial part of the sideloader physiology. Progressing down the production line an overhead crane is used to transport the huge chassis frames between fabrication and workshop, whilst a new rotator is used to help with mast welding.

"We sent people to the chassis manufacturer for over six months before adding them to our suppliers," says Klaus. "Simple requests, such as changes in fork length, have huge repercussions for the chassis, axle and deck. Our new outreach system also resulted in changes to the weight distribution, so the integrity is crucial."

Technical Troubleshooter

Klaus credits a new technical production troubleshooter with helping to bring new developments to the production line, whilst technical director, Riccardo Bove, has spent years working on refining and revolutionising everything from electronic systems to hydraulics and ergonomics.

all designed to provide a highly efficient and durable machine capable of efficiently working in small spaces.

The ELX is the first electric sideloader under four metres in length that retains a full well width and ground clearance. The bespoke battery more than doubled the work cycle expectations during field trials, but that's not the only electric upside.

"Cost saving, of course, is a big factor, but so too is noise. In Germany, Austria, Switzerland, long-established companies which have seen towns grow up around them, are under pressure to cut noise pollution by neighbours and legislators."

Two years in the making, and following six months of testing, the new panoramic cabin has been redesigned to strengthen the framework and allow central side struts to be removed. The previous cab, says Klaus, improved visibility to the front corners but the continuous glass side panel now means the driver has a much improved view from both sides.

"The pace of change is very fast," concludes Klaus, "maybe too fast! Customers tell us they like a new engine, but for us it is an old one. Similarly, others may not know, or care even, about fuel consumption on engine machines, but for electric models it is the total opposite. Our approach is to do what we do best, and to keep working closely with our customers. Whether new, or those that have been with us for many, many years."



Tougher, Smarter, Easier To Maintain

Our equipment's renowned durability is key to our long-standing partnerships with heavy and specialist load users across the globe.

This toughness comes from using quality components, for example Baumann axles guarantee a long service life, robustness and safety.

Other items are used intelligently to reduce wear, such as the galvanised axle bolts, and longer-lasting bronze bushings.

The contact between bronze and steel also results in practically no corrosion of the material, with much reduced abrasion than with conventional steel-steel contact.

Reduced wear of the axles is of particular importance for sideloaders because there

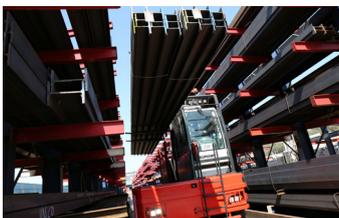
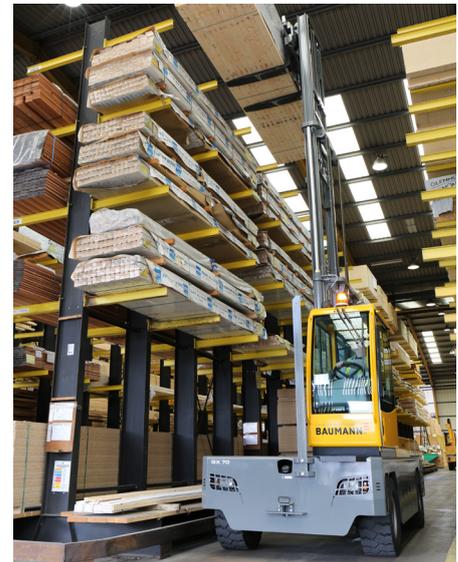
are additional rotational pressures acting upon them.

Keeping things simple

During our research and development stages, great emphasis is also placed on simplifying the maintenance and servicing of our equipment.

Commonality of parts is one way to achieve this, hence all the bolts used at the connections between the outreach cylinders and their vertical supporting brackets are the same as those used in the axle brackets.

Reinforced pin rod eyes are incorporated in both the outreach cylinders and the tilting cylinders.



Customers use the amazing residual capacity of Baumann sideloaders at height to allow them to store up to 12 tonnes steel profile loads in cantilever racking up to 6.5m high. Others rely on Baumann trucks, with special thermal protection and spacers on the deck, to keep loads over 450°C for up to 30 minutes.



From the very latest three-way impact sensors, to driver performance monitoring and scoring, our telematics options provide a wealth of vital information.

Key Truck Features



Heavier Loads

Companies handling the heaviest loads rely on us to provide robust machines that are more than up to the job. Even at these capacities, our aim has been to deliver the levels of productivity, flexibility and reliability that we have become rightly famous for.



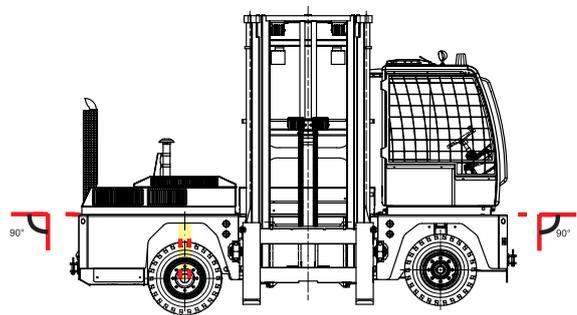
Continuous Improvement

We are developing new improvements and new models all the time. Our latest GX range, for example, combines stricter emissions compliance with improved handling performance, durability and productivity, via upgraded engines and a refined chassis.



Customisation

Options such as convenient Baumann hydraulic stairs, rear view cameras, rotating cabs or central lubrication systems further increase the service-friendliness, ease of use, performance and safety of our equipment.



Auto-Deck Levelling

Two activating cylinders under the deck make it easy for the operator to tilt the truck but they are also connected to each other. The automatic stabilizing system means that once the platform is fixed in the horizontal position, even over long distances, or on difficult, uneven ground conditions, the platform remains always horizontal.

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