| Materials Handling Equipment For Long Loads

CAVAION SIDELOADERS

BAUMANN®

the art of working sideways

EGX SERIES

5 - 8 TONNES CAPACITY
120-Volt with VRS

Long shift life
Single-battery cabinet
Lithium-Ion battery option
Heavy-duty components
Reliable & robust
Load-sensing
Auto-deck levelling
Award-winning VRS outreach system with X-Plus
SafeLoad Assistance

SAFELOAD ASSISTANCE

X-PLUS SERIES

www.baumann-sideloaders.com

A host of handling options: every truck is designed for a specific application

Amongst the most popular attachments are spreader beams and extended carriages.

For very long loads a fixed spreader beam (attached to a standard carriage) sits outside the chassis with an additional fork at either end.

Extended carriages allow the forks to travel along the full length of the truck, adding the ability to close the forks together.

It's therefore possible to carry different lengths, such as a load positioned above the deck, or even a pallet in the sideloader well.

If the centres of gravity of your loads vary, or movement is restricted, fork positioners allow you to move the forks relative to the truck (but always a fixed distance from one another) via hydraulic rams mounted in the carriage.

When a load is stored on a slope or cannot be raised with level forks a hydraulic lifting and lowering fork raises one fork a few inches.

If both forks require independent movement, vertically moveable forks can provide lift independent of the mast.

A single box battery box above the deck also gives fast and easy changeover, making the EGX popular for multi-shift applications.

This range is also supplied with the latest version of our Variable Reach System (VRS) for more efficient control.

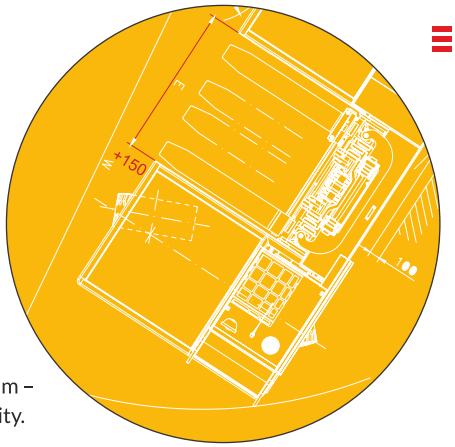
VRS delivers high precision outreach and productivity via the low-maintenance Archimedes screw system. We believe the award-winning system is the biggest improvement in sideloader design in over 50 years.

Tilting the deck, mast or forks

Tilting a mast back to secure the load is common practice on forklifts and reach trucks, but on a Baumann sideloader the mast is fixed and the whole truck tilts sideways. The whole of the machine can be tilted horizontally, to improve load picking and security.

This allows Baumann sideloaders to feature self-levelling beds. When travelling over uneven ground the deck, and therefore the load, remain perfectly level and secure. Occasionally, a tilting carriage can be added to the mast to provide an additional 5 degrees (plus or minus) of tilt.

The reach capability (X-dimension) has been improved to 150mm, without changes to the truck dimensions. The added outreach provides operational benefits, with improved flexibility for loading and unloading, and use of a 1,200mm deck in circumstances that would otherwise require 1,400mm – improving storage capability.



The surface of the deck is usually made of a specially reinforced composite deck board, but for handling steel it may be checker plate (also called diamond plate or steel tread plate) for protection purposes.

Hardwood timber bearers are often added to the deck for steel profile loads. Metal or wooden bearers may also be grooved to fix steel or plastic tubes in place.

Introducing The EGX Series:
The future is here

Our most popular sideloaders are some of out most advanced, performing superbly over long shifts and greater distances. The 120v electric EGX offers high speeds, quiet comfort and long battery life, with capacities from 5 to 8 tonnes.

The fantastic cabin has all round views with clear and comfortable controls and a host of camera options. As well as incredible battery performance, the EGX utilises the direct drive Archimedes screw to extend the fork carriage, preventing transverse movements and eliminating unnecessary stresses.

Engine-like performance

The EGX has two drive motors and larger capacity and longer run time 120v battery, offering the best running hours in its class. Add the panoramic cabin, load sensing, joystick control, full road-legal LED lighting and precise mast control and the offers true engine-like performance.

Zero emissions

Electrics offer zero emissions, are cheaper to run and maintain, as well as offering a better operator environment. Noise and cost savings will also benefit long-established companies that are under pressure to cut emissions and noise pollution by neighbours and legislators. Lithium-ion battery options are also available.

VRS Outreach

The unique award-winning Baumann VRS outreach system provides smooth and accurate mast travel. A bespoke valve block allowed us to double the Archimedes spindle thread size and corresponding number of bearings, halving of the pressure required between them, providing greater control and the ability to seal the spindle head.

Intelligent electronics

We are constantly innovating to get more efficiency out of our components, including super-efficient 120v motors and wiring. Individual cables are directly connected to each component to maximise energy transfer, reduce heat and deliver the best possible run times.

Auto-stabilisation

Once the platform is fixed in the horizontal position, the load remains stable even on uneven ground. Cornering speed is automatically reduced if safe truck parameters are exceeded and the incredible optional SafeLoad Assistance warns operators if potentially dangerous overloading situations occur.

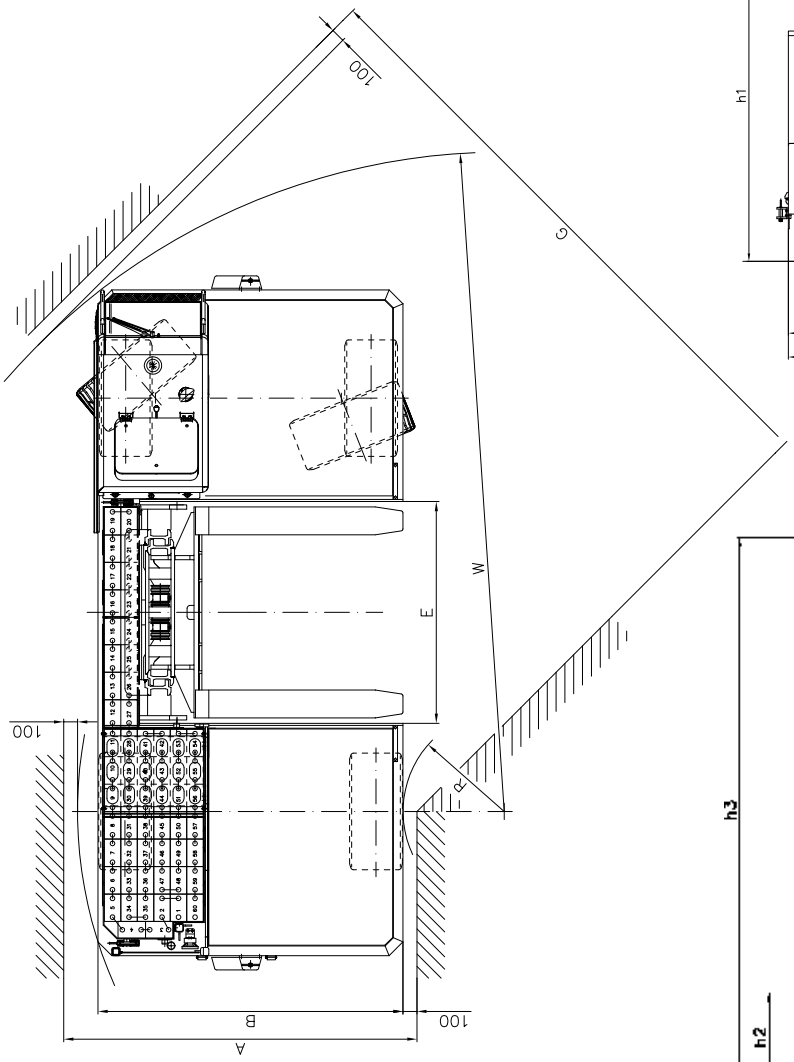
Innovative hydraulics

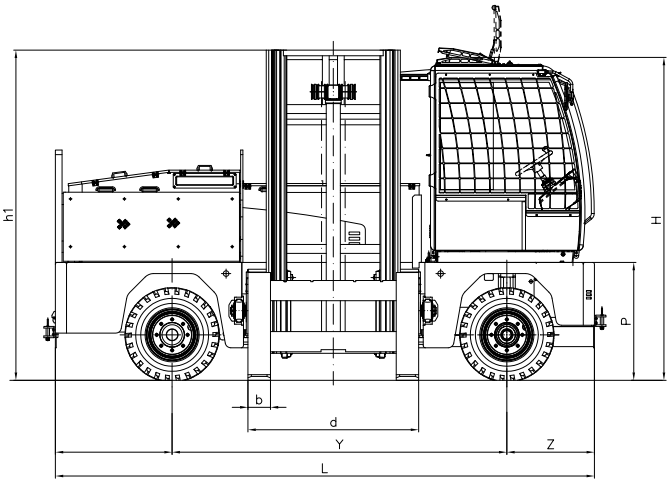
The EGX utilises a bespoke steering axle and flow matching hydraulic system. Through closed-loop control, the hydraulic pressure is adjusted depending on the load, saving energy and improving efficiency.

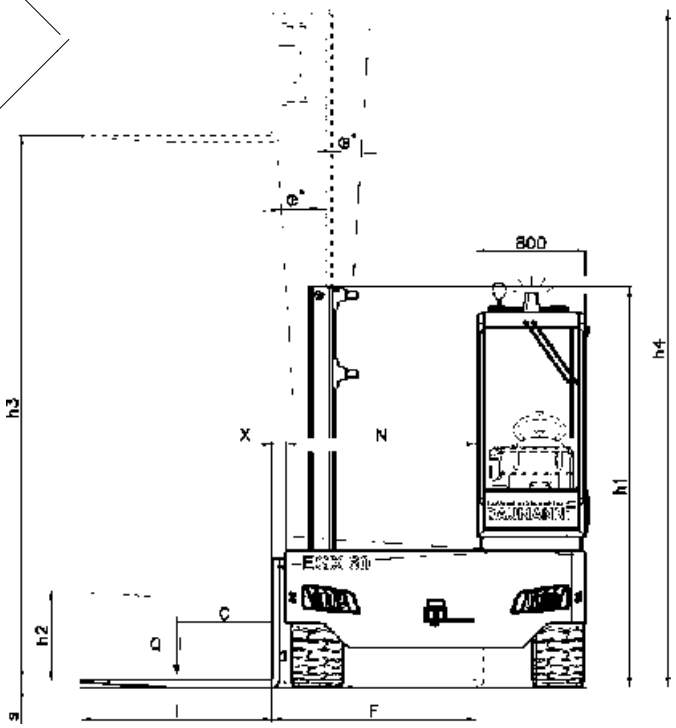
TYPE			EGX 50	EGX 60	EGX 70	EGX 80 L
Technical Data						
Lifting capacity	Q	Kg	5000	6000	7000	8000
Load center	C	mm	600/700	600/700	600/700	600/700
Fork length	l	mm	1200/1400	1200/1400	1200/1400	1200/1400
Fork width	b	mm	200	200	200	200
Fork thickness	s	mm	50	50	60	60/65
Drive			Electric	Electric	Electric	Electric
Type of steering			Hydrostatic			
Type of tyres			Pneumatic tyres			
Dimensions						
Total length	L	mm	4800	4800	4800	4800
Total width	B	mm	2000/2200	2000/2200	2070/2270	2120/2270
STD mast* height lowered	h1	mm	2990	2990	2990	3030
STD mast* height extended	h4	mm	5025	5025	5025	5090
Cabin height	H	mm	2850/2900	2850/2900	2850/2900	2850/2900
Lift height	h3	mm	4000	4000	4000	4000
Free lift	h2	mm	695	695	695	600
Chassis tilt angle (up/down)		°	1200±4.4 / 1400±3.6			
Platform height	P	mm	1050	1050	1050	1050
Platform width	N	mm	1200/1400	1200/1400	1200/1400	1200/1400
Lateral movement	F	mm	1300/1500	1300/1500	1300/1500	1300/1500
Load spacing max.	x	mm	150	150	150	150
Framework cut	E	mm	1600	1600	1600	1600
Fork spacing max	d	mm	1520	1520	1520	1500
Turning radius inner	R	mm	730	730	730	730
Turning radius outer	W	mm	1200=4700 / 1400=4800		1200=4800 / 1400=4900	
Aisle width	A	mm	1200=2400 / 1400=2600		1200=2470 / 1400=2670	
Aisle width for 90° Turning	G	mm	1200=4400 / 1400=4450		1200=4500 / 1400=4550	
Performance						
Travel with/without load		Km/h	20/20	20/20	20/20	20/20
Lifting with/without load		m/s	0.32	0.32	0.32	0.32
Lowering with/without load		m/s	0.4/0.3	0.4/0.3	0.4/0.3	0.4/0.3
Traverse with/without load		m/s	0.35	0.35	0.35	0.35
Tractive power		kN	41	41	41	44
Gradeability		%	16/ 18	16/ 18	16/ 18	16/18
Weights						
Weight of truck		Kg	11000/11500	11500/12000	12000/12500	13000/13500
Axle load front		Kg	9250/9500	9250/9500	10100/10500	11200/11400
Axle load rear		Kg	10250/10500	10250/10500	10500/11000	11600/11900
Chassis						
Tyres front/rear			2/2	2/2	2/2	2/2
Tyres size front/rear		Inches	32x12, 1/15 300-15 SE	32x12, 1/15 300-15 SE	355-65	355-65
Tyres outside diameter		mm	840	840	840	840
Wheel base	Y	mm	2980	2980	2980	2980
Track front	Sp1	mm	1200=1640 / 1400=1840			
Track rear	Sp2	mm	1200=1670 / 1400=1870			
Ground clearance		mm	240	240	240	240
Service brake	hydraulic		Steering axle + 1/3 drive axle			Steering + drive axles
Parking brake	hydraulic		Drive Axle			
Drive						
Battery Type	6EPZ	120v	6EPZ	6EPZ	6EPZ	6EPZ
Battery Capacity		A	750/840	750/840	750/840/930	750/840/930
Drive Motor	Number		2 x 20 kW S2 60mins	2 x 20 kW S2 60mins	2 x 20 kW S2 60mins	2 x 20 kW S1
Gear Changing	Switch	Type	Manual	Manual	Manual	Manual
Gear Levels	Fw/Rv		Direct	Direct	Direct	Direct
Controller	Mosfet	Inverter	Impulse	Impulse	Impulse	Impulse
Lift Motor			35 kW S2 30min	35 kW S2 30min	35 kW S2 30min	35 kW S2 30min

*STD mast: 4000mm Duplex

EGX 50 - 70	Lift Height	Lowered	Extended	Free Lift	EGX 80 L	Lift Height	Lowered	Extended	Free Lift
	h3 mm	h1 mm	h4 mm	h2 mm		h3 mm	h1 mm	h4 mm	h2 mm
Duplex-Standard ST	3500	2740	4525	695	Duplex-Standard ST	3500	2780	4590	600
	4000	2990	5025	695		4000	3030	5090	600
	4500	3240	5525	695		4500	3280	5590	600
	5000	3490	6025	695		5000	3530	6090	600
	5500	3740	6525	695		5500	3880	6790	600
	6000	3990	7025	695		6000	4130	7290	600
Triplex-Free Lift TR	5700	2890	6725	1865	Triplex-Free Lift TR	5700	2930	6798	1850
	6000	2990	7025	1965		6000	3030	7080	1950
	6300	3090	7325	2065		6300	3230	7380	2050
	6600	3190	7625	2165		6600	3330	7680	2150
	6900	3290	7925	2265		6900	3430	7990	2250
	7200	3390	8225	2365		7200	3530	8290	2350
						7500	3630	8590	2450







What's New? SafeLoad Assistance offers a new level of load safety awareness. Using sensors in the truck chassis, the new EGX monitors the forces acting on the front and rear axles to determine the level of safety. Software in the cabin processes the forces and calculates the relative tipping point of the truck in relation to these forces. Lithium-ion or lead acid 120V AC battery power provides incredible longevity and higher travel and lifting speed performance.

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Award-winning innovation: *Decades of manufacturing experience and expertise has enabled us to improve, innovate and push sideloader design forward.*

The blending of innovation, productivity and durability.

Baumann machines can cope with almost anything you can throw at them.

Our chassis are built to exacting standards, while our masts have a unique profile designed for the specific 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 and productivity.

Our Variable Reach System (VRS) with Archimedes Outreach is the most advanced development in sideloader design in over 50 years.

We have been nominated five times in the Fork Lift Truck Association's Excellence Awards, winning for both Environment and Innovation, and are the only sideloader manufacturer to receive the prestigious Watt d'Or from the Swiss Federal Office of Energy.

With a strong reputation for our ability to customise standard models around specific needs, we are a reliable and professional partner, particularly in technical support and after-sales.

Our panoramic operator cabs offer the very latest technology, efficient use of space and high levels of ergonomics.

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

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