BC 1000S2

BC 1501S2

Bär Cargolift Standard S2 – built for payload optimised distribution transport

Bär Cargolift –
more than just a tailgate

What power can do depends on how you apply it. The new S2 Series Cargolifts are setting standards in the 1000 and 1500 kilogramme loading capacity class. The 2=4 Technology eliminates the disadvantages of conventional 2-cylinder tailgates, and is even superior to many 4-cylinder models.

Special vehicle equipment decline payload balance – you find a solution with Bär Cargolift Standard S2.

BC 1000S2
BC 1501S2
BC 1502S2

BÄR Cargolift®

Bär Cargolift Standard with 2=4 Technology. The first 2-cylinder in the 4-cylinder class.

Lifting arm (left) and supporting arm (right) With cylinder cover and bellows.

Typical Bär

There are 25 years of experience in the world's toughest markets behind every Cargolift:

- Robust, with a high safety margin
- Light, thanks to intelligent construction and the best materials
- Simple and safe operation
- Easy to use
- Durability, all components in automotive quality
- Easily serviced and low maintenance
- Widespread European service network
- 24 month warranty

Why a 2-Cylinder Cargolift?

The 4-cylinder Series S4 Cargolifts have been meeting the requirements of the market perfectly for decades.

For the low to medium load market segment with relatively low platforms and standardised bodies, the 4-cylinder Cargolifts are 'over spec' and too heavy. Instead of downgrading our S4 Cargolifts, as our competitors would do, we put our trust in 2=4 technology. Our S2 Cargolifts will stand up to any comparison when it comes to stability and weight.

The physical disadvantages of one-sided power application have been eliminated, thanks to our 2=4 technology. The consequences: For loading capacities of 1000 kg or less we now only supply 2-cylinder Cargolifts. For loading weights between 1000 and 1500 kg we can provide both versions.

High performance paired with maximum economy.

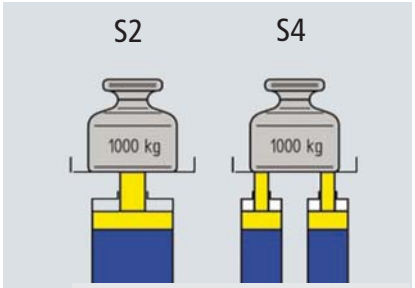
There's no doubt that with a Bär Cargolift with 2=4 Technology the performance, weight and price are just right. The S2 series with 2=4 Technology is the perfect solution for a wide range of applications.

For those applications where 2=4 models are not quite so suitable, we can offer Bär S4 series Cargolifts with proven 4-cylinder technology:

- When the under-run protection can't be swung with the lift (low ground clearance)
- Platform heights over 1810 mm
- Standard Cargolifts for semi-trailers and drawbar trailers
- Universal installation options
- Higher working speeds
- Even longer operational life

It all depends on the lifting power

When a tailgate needs to lift a load, an appropriate amount of power must be applied. It doesn't really matter how many cylinders supply the required power. The capacity of each cylinder on a Bär 2=4 Cargolift is at least twice as large as that of a single cylinder of a comparable 4-cylinder tailgate.



Same capacity, same power, doing the same job.

2=4 Technology

A Bär Cargolift with 2=4 Technology butts against the cargo floor just like a 4-cylinder tailgate, even in the case of off-centre loading.

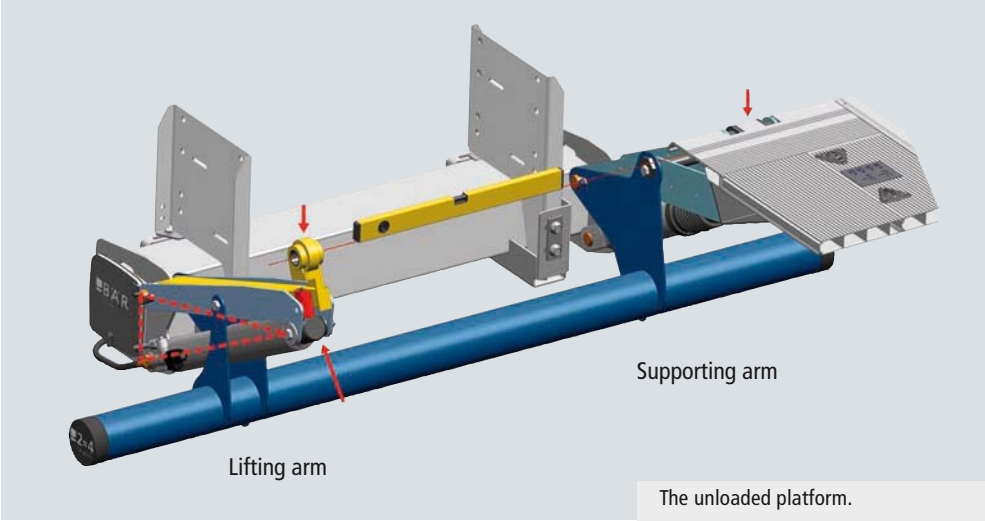
The pivot mechanism welded to the platform transfers the torsion forces generated by the load to the tilting cylinder with an absolute minimum of torsion, even with off-centre loads.

The tilting cylinders of the S2 Series have plenty of power in reserve and are even capable of lifting 180% of the load moment when lowering to the ground.

Platform unloaded

The raising cylinder supports the lifting arm in a triangle of forces.

Power transfer between the lifting and supporting arm is via the under-run bumper bar.

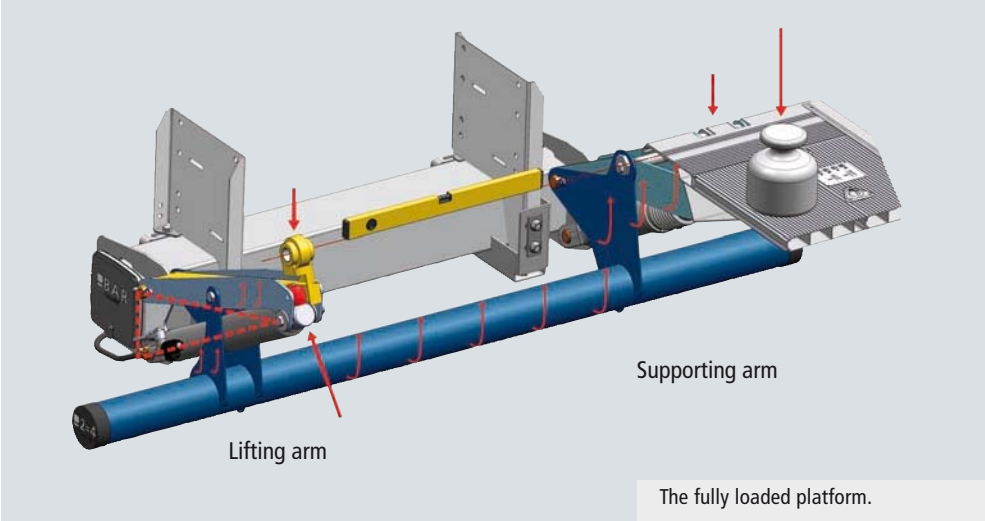


The unloaded platform.

Platform fully loaded

The system dictates an elastic deformation of the under-run bumper bar when the platform is loaded. This causes the support arm to lower – a gap appears between the body and the platform.

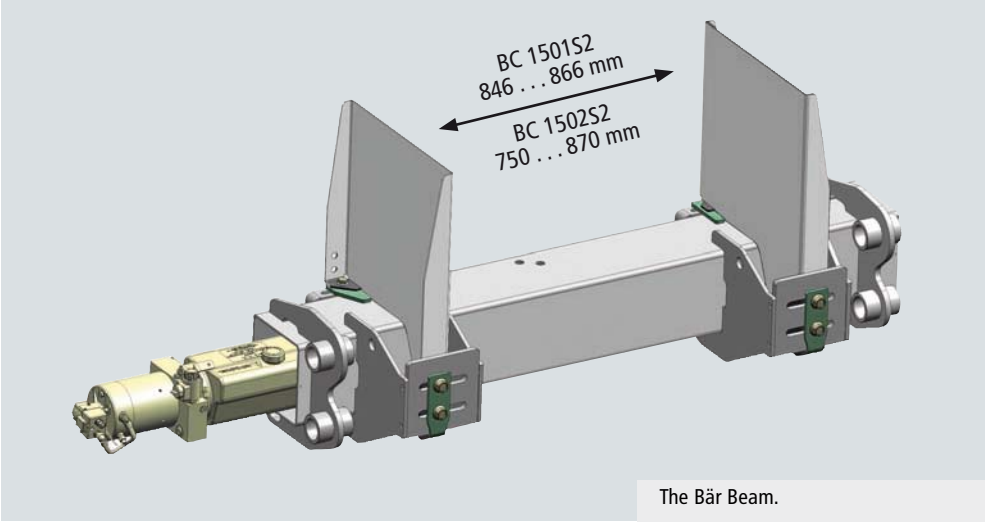
The 2=4-Technology compensates for the lowering of the supporting arm by compression of the lifting arm (red spring) – simultaneously, and at every loading level. This result of this synchronisation is comparable with that of 4-cylinder technology – the platform always remains level!



The fully loaded platform.

The Bär Beam. Stability and proven technology.

The beam provides the high stability of the Cargolift and reduces chassis loading by optimising bilateral force distribution. Fast and tension-free mounting is made possible by means of bolt-on mounting plates adjustable to fit the frame width. The power-pack itself is built in to the beam and therefore perfectly protected.



The Bär Beam.

BAplan Full Aluminium Platform – Why?

Impermissible forklift run-over – too heavy and one-sided. See our website for allowed figures.

BAplan Full Aluminium Platform. Only the hinge bracket is steel (cathodic dip coated).

Best stand when wet and greasy, TracGrip (optional accessory).

Perfect safety, at the edges too, with the SideGrip (optional accessory).

Trolley stop 2ad :
Outstanding automatic trolley locking in all directions. Trolley must be rolled back to release!

Trolley stop 2rd:
A simple barrier for the trolley. Correct slope of the platform presses the trolley against the flap. Released by stepping on the raised flap.

The well-known platform system with vertical profiles was reinvented by Bär:

The new platform, with sections developed at Bär, is further proof of innovative solutions made by Bär. Around 15 to 25 kg lighter than its predecessor and constructed by Bär in one piece including the torsion box.

When things get rough

- Highest overloading capacity of all available platform systems, no permanent deformation after permissible or impermissible forklift run-over!
- Highest roll-over rigidity.
- Best in class for stability/weight ratio. See facts and figures for weights.

Safety on the platform

- TracGrip offer the best anti-slip protection in all directions.
- The SideGrip is an effective protection against slipping and falling for the operator.
- User orientated trolley stops. See our brochure – Special Accessories.

Clean vehicle – clean image.

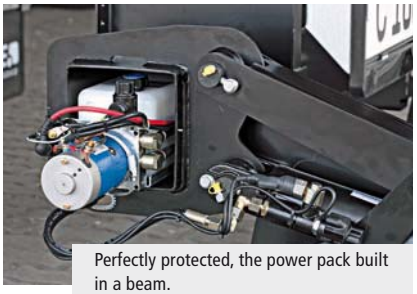
- A visually attractive platform with a large advertising area.
- No steel backpack, no rust, no painting problems.
- No visible bolt heads, no ‘dust gatherers’, easy to clean.

Perfection in Detail – Standard

Bär Standard Manual Control, S2 Series.

Bär Manual Control, robust, large version as an optional accessory.

Bär Foot Control.

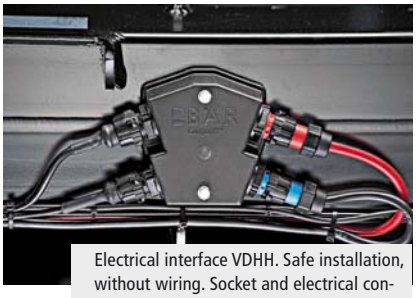


Perfectly protected, the power pack built in a beam.
Motor with thermo-protection.

Relay-controlled central circuitry. Perfectly protected in a beam. Simplest back-up controls.

Greasable, low maintenance bearings. Greasing interval once per year in 1-shift usage of the vehicle.

Cathodic dip coating for all steel parts in automotive quality.



Electrical interface VDHH. Safe installation, without wiring. Socket and electrical connections for automatic box-body lighting are standard equipment.

CargoFlash – low profile, over-roll resistant LED flashers. Flush mounted against knocking and rolling damage.

Bär Cargolift Standard S2.
Facts and figures

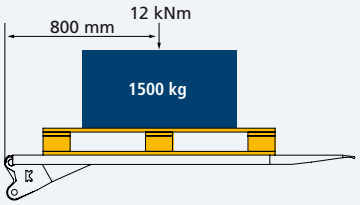
Which Bär Cargolift for vehicle (MLW / t)?

BC	Vehicle		Lifting height (mm)	
	min.	max.		
1000S2	6,0	8,6	1210	
1501S2	7,5	15,0	1250	For drop frame vehicles
1502S2	12,0	15,0	1390	For high vehicles

Bär S2 Cargolifts have a pivoted under-run protection.
To ensure maximum ground clearance, the Cargolift must be installed as high as possible in drop frame vehicles.

Load Capacity (LC)

BC	LC (kg)	Load Centre (mm)	Load Moment (kNm)
1000S2	1000	600	6,0
1501S2	1500	800	12,0
1502S2	1500	800	12,0



The load moment is a comparative value for all tailgates. It is calculated by LBC x Load centre. Our example: BC 1501S2.
If the load centre is doubled e. g. a high platform, the LC is reduced by half. See our website.

Bär Full Aluminium Platform BAplan. . .

BC	Platform	Height (mm)		Trolley stop SA		Width min. (mm) SA Trolley stop			Surface		Platform edging	
	System	min.	max.	1.	2.	w.o.	1.	2.	Series	SA	Series	SA
1000S2	40VLL	1610	1810	2ad	2rd	1950	1950	1950	Corrugated	TracGrip	SideGrip	for side loading ramps + SideGrip
1501S2	40VLL	1610	1810	2ad	2rd	2300	2300	2300	Corrugated	TracGrip		
1502S2	40VLL	1610	1810	2ad	2rd	2300	2300	2300	Corrugated	TracGrip		

All platforms can technically be made in 50 mm height increments. Standard platform width: 2520 mm.
For availability see pricelist. Complete availability of the BC programme with BAplan will be in Q4/2007.

Cargolift net weight

BC	Platform height (mm)		Platform height (mm)	
	min.	kg	max.	kg
1000S2	1610	285	1810	294
1501S2	1610	387	1810	397
1502S2	1610	402	1810	412

The weight includes installation materials, wiring and under-run protection.

Electrical installations by vehicle manufacturer

Manufacturer	Code A
Mercedes-Benz	E33
MAN	320 EC
DAF	SELCO 2597
Scania	50359A (D) / FFU no. 356331
Volvo	PMR 10-3130

Article no. 70.133447
Technical modifications subject to modification. 08/07

Bär Cargolifts comply with the CE-Norm

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