

At the end quality pays

TruckBus



2-, 3- and 4-ram vehicle lifts

for special-, rail- and industrial vehicles, trucks and buses

J.A. Becker & Söhne



Going up safely

... instead of cramped into the pit



← Hydraulic JAB-commercial vehicle lifts for lifting a wide range of multi-axle trucks, from weighty forklifts up to a complete tramway.

- safe working conditions
- flexible application
- variations for every demand
- tried and tested in many workshops



J.A. Becker & Söhne

*The pit belongs to the past,
the future belongs to JAB!*

that show the way to the future

Variations

Rams

Number of lifting rams choiseable from 2 to 7. Generally one of these lifting rams (from HVV-lifts two rams) is installed fixed. The others are moveable. Depending on axle spacing of the vehicles to be lifted, all rams can be installed moveable as well.

Lifting capacity

Lifting capacity per ram from 5.000 kg, 8.000 kg, 16.000 kg up to 22.000 kg. On demand even up to 40.000 kg.

Supports

Exchangeable sliding supports are most frequently used. Whether you prefer universal supports or special customized lifting pads for specific vehicles – we solve every problem to your entire satisfaction.

Telescopic vs. plunger rams

In new buildings or where the floor conditions present no difficulty, the single-stage-ram is the best and most economical solution. With a constructional depth of 1.450 mm only, the telescopic ram is the ideal version for installing into pits or in water preservation areas with high ground water levels. Preassembled JAB lifting units in self-contained foundation cassettes are ideal for retroactive installation in existing workshops or pits, where they can be integrated with no trouble.

Foundation and cover plates

In a new workshop a concrete foundation is especially suitable. For retroactive installation a steel foundation cassette is recommended. Both executions are equipped with corrosion free aluminium segment roller covering which covers the complete pit area.

Fully recessed execution HE

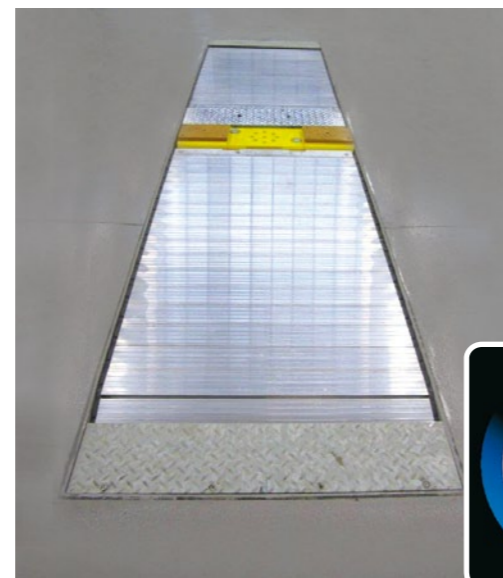


Photo: two-ram-lift
Lifting capacity 8.000 kg per lifting ram

Technical data

You will find an overview of the technical data in the enclosed specification sheet. This, as well as detailed product files with technical drawings, can be obtained from our sales and distribution department.

For your safety: Hydraulics in perfection

For the application sectors where allhydraulic vehicle lifts are involved JAB has developed the hydraulics in many decades into a near perfect system. The flange-mounted hydraulic pump – needing no pipework – is only an example for the especially high JAB-

quality-standard. You too can benefit from the superior performance, extensive safety and long service life which are achieved with a minimum of maintenance.

The classic solution

Supplementary to the inspection pits which have been in use up till now, more and more utility vehicle workshops are enjoying the advantages of modern multi-ram-lifts. And the extremely low ground clearance of present-day buses leaves no other option than to lift the vehicles up.

But even in the case of trucks, which are more easily accessible, a JAB lift will prove to be a real advantage by effecting perceptible rationalization and a working environment at an ergonomically adapted working height.

The two-ram-lift has become very popular because its performance is adequate for most utility vehicles. The position of one of the rams is electromotively moveable to ensure that vehicles with different wheel bases can be lifted.

Both rams have their own drive unit and can be driven synchronously or individually. The synchronisation of the rams remains unaffected by varying load distribution.

This lift is suitable for trucks, semi-trailer towing vehicles and standard buses with one front axle and up to three rear axles.



Exchangeable sliding supports allow to lift all types of vehicle of the appropriate weight category with a maximum of safety.

Additionally mechanical safety supports with automatically functioning notches are available. For this reason all JAB-lifts conform to EN 1493:2010.



Exchangeable support system for lifting of diverse vehicle types.

- suitable for low platform floor buses
- noticeably easier working conditions
- for vehicles with diverse wheelbases
- exchangeable support system

Consultation ... is indispensable

The combination of the diverse variations (rams, supports, wheelbase flexibility, types of foundations, cover plates ...) allows for an individual configuration for your specific application environment.

As an experienced workshop supplier it is for us a matter of course to support you in your decisions. Benefit from the wide range

of JAB-Know-how and include us in your planning as soon as possible.

Our authorized dealers and representatives who are working closely together with our engineer are the ideal contact persons to advise you in a competent way.

Benefit from the wide range of JAB-Know-how





The All-Rounder

The three-ram-lift manages almost every type of vehicle. Generally it is used for lifting articulated buses and complete road trains. The middle lifting ram is normally a fixed installation whereas the two other rams are moveable to allow different wheel bases.

Although design, technology and operating comfort are the same as the two-ram-lift, the system-related synchronization is supplemented by an electronic safety device which eliminates unintentional differences in height or reduces them to max. 50 mm.

The three-ram-lift manages almost everything!

To ensure that the versatility of the lift remains unrestricted, the synchronization controls can be switched off. This enables the rams to be driven individually or in pairs. Consequently, the three-ram-lift constitutes a two-ram-lift also.



All advantages of the two-ram-lift, plus:



- safe lifting of articulated buses and tractor trailers
- electronic safety control system
- also applicable as a two-ram-lift

Installation possibilities

1. Plunger rams

The standard plunger rams are the obvious choice for new buildings where the bearing plate is included in construction planing. The installation depth plays a secondary role only, since – in most cases – inspection pits will have to be built anyway. The ground conditions are however decisive for the basic version. However, the respective ground conditions must be taken in account only.

2. Telescopic rams

The shallow installation depth (only approx. 1.500 mm) allows to fit this version into existing pits. Lifts in this version are ideal for use in water preservation regions or where the ground water level is exceptionally high.

3. Telescopic rams in foundation cassettes

The retrocactive installation in existing halls can be accomplished most easily using this variation. The lift is delivered as a preassembly in integral steel cassettes and can be very easily installed in the prepared foundation.

As an option the foundation cassettes can be delivered with an acceptance certificate according to § 19 of the Federal Water Act (WHG), because JAB is a specialist supplier conforming to § 19 WHG. This version can also be installed without problems into existing pits, if they have a minimum depth of 1.500 mm.

Retrocactive installation? No problem!

Telescopic ram with an optional safety bar (conforming EN 1493:2010)



The Handyman

The four-ram-lift allows the lifting of double articulated buses or long tractor trailers. Not only can it be used as a four-ram-lift, but it is also possible to employ it as a three- or two-ram-lift.

Whether it has two axles, if it is a tractor trailer or an articulated bus – no problem what ever. The electric control unit with integrated electronic synchronization always ensures ease of operation.



2 HVV four-ram-lifts, which are used as 2 two-ram-lifts.

All advantages of the two- and three-ram-lift, plus:

- safe lifting of double articulated buses and tractor trailers
- can be used as three-ram-lift also
- also usable as 2 two-ram-lifts



Technical features

of all
JAB heavy duty lifts

piston stroke 1.900 mm

lifting capacity per ram
choiseable 5, 8, 16, 22 or 40 tons

pistons are hard-chromium plated

high bending moment rating

anti-twist device for the cylinders

electric sliding drive, optional with AWBP (automatic wheel base positioning), for storing the ram positions

pit cover plates allow max. 5 tons single wheel pressure with pneumatic tyres (3 tons for rubber typres)

the pit in the entire position adjustment range is automatically covered

emergency descent by way of simple access through assembly plate of hydraulic cylinder, outside the contours of the vehicle

easy servicing, pump units and seals are freely accessible

lift slide supports are externally adjustable to specific vehciles (with special tools)

Options

For all JAB-lifts a quantity of useful additional equipment is available.

Wash-proof version for wet environments consisting of encased position adjustment drive with stainless shaft and plastic-coated lifting cylinder for optimal corrosion protection. Supporting cylinder instead of mechanical safety locking bars.

Hot galvanized frame work and wheel pans particularly recommended for washing platforms.

Power supply (suspended control element see p. 15)

Radio remote control: Radio remote control can be used instead of control panel.

Safety locking device (conform EN 1493:2010) mechanical fastening and hydraulic release.

R-Position indicator with red/greed signal lamp shows whether all head-plates are in the bottom resting position – ideal for vehicles with small ground clereance (low-platform buses).

Electronic sliding drive unit (AWBP) automatic wheel base positioning. For automatic ram positioning for vehicles with specific wheelbases.

Biodegradable hydraulic oils: All JAB lifts can be operated with biodegradable hydraulic oils upon request

Recessed execution: The rams can be installed in recessed version (Parking position) with or without bottom levelling device.

Fully recessed execution (HE): Upon request the JAB lifts are available in fully recessed execution as well. With this execution, the movable rams can be moved in totally lowered position. Optimal for vehicles with low bottom clearance (low platform buses).

Ex-Proof Execution: Upon request JAB-lifts can be designed according ATEX-regulation 94/9/EG

Paint booth execution with piston oiler and supporting cylinder, specially for operation in paint booth.

Multiple ram units with drive-on platforms upon request.

JAB – for rail- and tracked vehicles and industrial trucks

Going up even the heaviest load!

Whether rail-, tracked vehicles or industrial trucks – JAB can fully show its expertise with these heavyweights and cater to their respective demands.

You can recognize the competence of experts especially in our systems for lifting and supporting of vehicles bodies of tramways, combined with lifting systems for changing the bogies.

Our focus is on fully hydraulic lifting systems with precise electronic synchronisation of the rams.

With our innovative engineering you realize a maximum of efficiency and work safety.

The realisation of individual solutions with reliable and maintenance friendly technology is our focus.

Tanks on a JAB-lift.
Lifting capacity
35 t per ram.



JAB-Innovation

also for heavy loads

lifting capacity to 40 t per ram

safety locking device

electronic synchronization device

Expertise of lift experts.



JAB-Innovation

especially precise synchronization

tried and tested lifting technology

for entire tramways

JAB-Innovation

lifting capacity up to 15 t

1- or 2-rams

sunk flush to the ground

changeable supports

various vehicle types



A forklift on a
JAB-special lift.
The lifting capacity
of the illustrated
type is 15 t.

You want to get further information?

Kindly ask us!

JAB – drive unit, control unit and safety

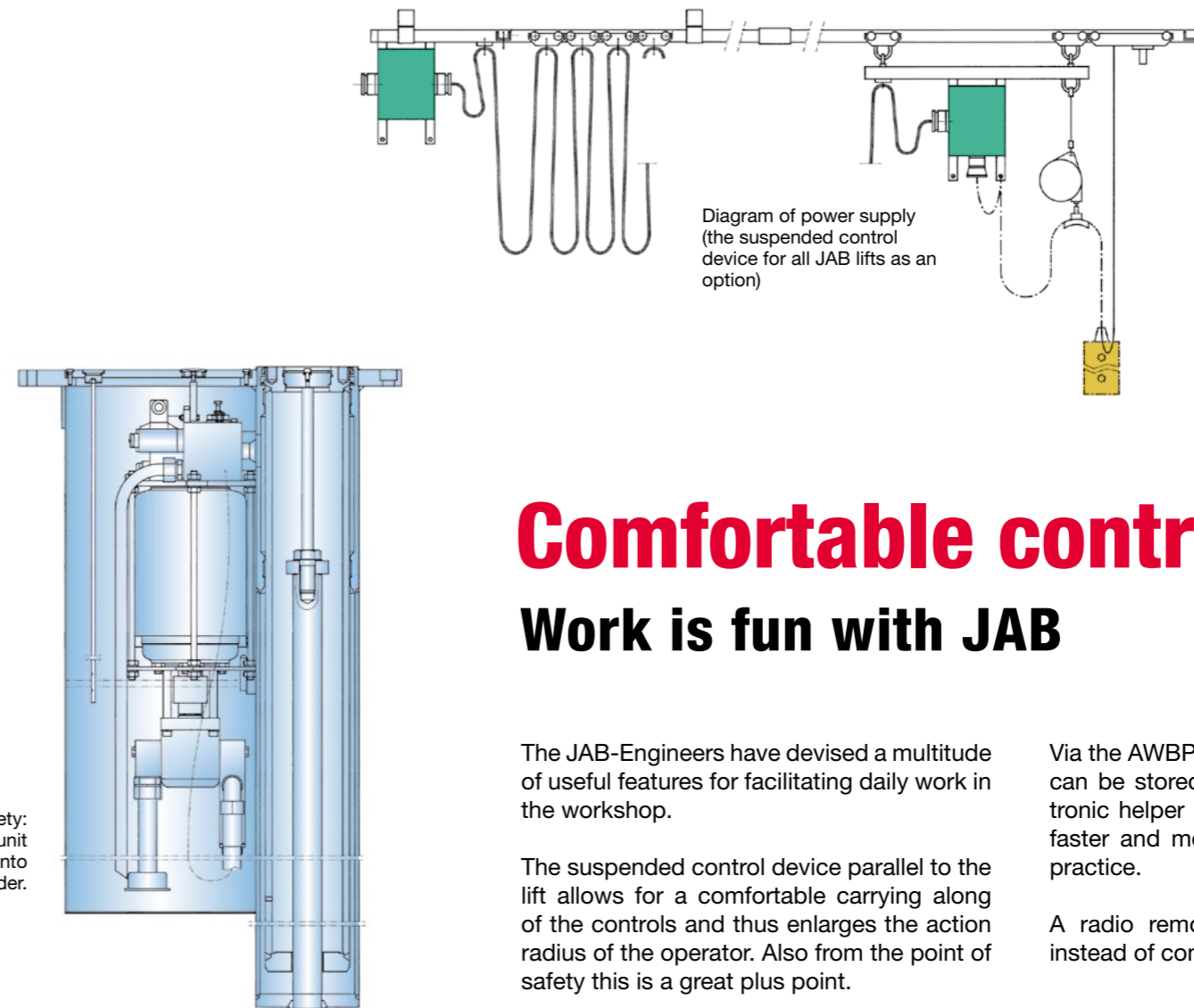
Safe is safe

All commercial vehicle lifts of JAB have the following safety features:

A locking block automatically interrupts every movement when the drive mechanism is switched off or fails. Because the hydraulic pump unit is directly flanged, a burst pipe is impossible. That translates into inherent safety upon which you can rely.

During lowering the motor runs in reverse direction thus working as a brake on the lowering movement. In case of a defect the lowering speed is additionally braked by a nozzle which reduces the flow in the hydraulic pipes. As an option we deliver the lift with mechanical safety supports (conform EN 1493:2010).

For countries with the corresponding regulations three- and four-ram-lifts can be equipped with electronics that limit the height difference of the rams to 50 mm.



Comfortable control unit – Work is fun with JAB

The JAB-Engineers have devised a multitude of useful features for facilitating daily work in the workshop.

The suspended control device parallel to the lift allows for a comfortable carrying along of the controls and thus enlarges the action radius of the operator. Also from the point of safety this is a great plus point.

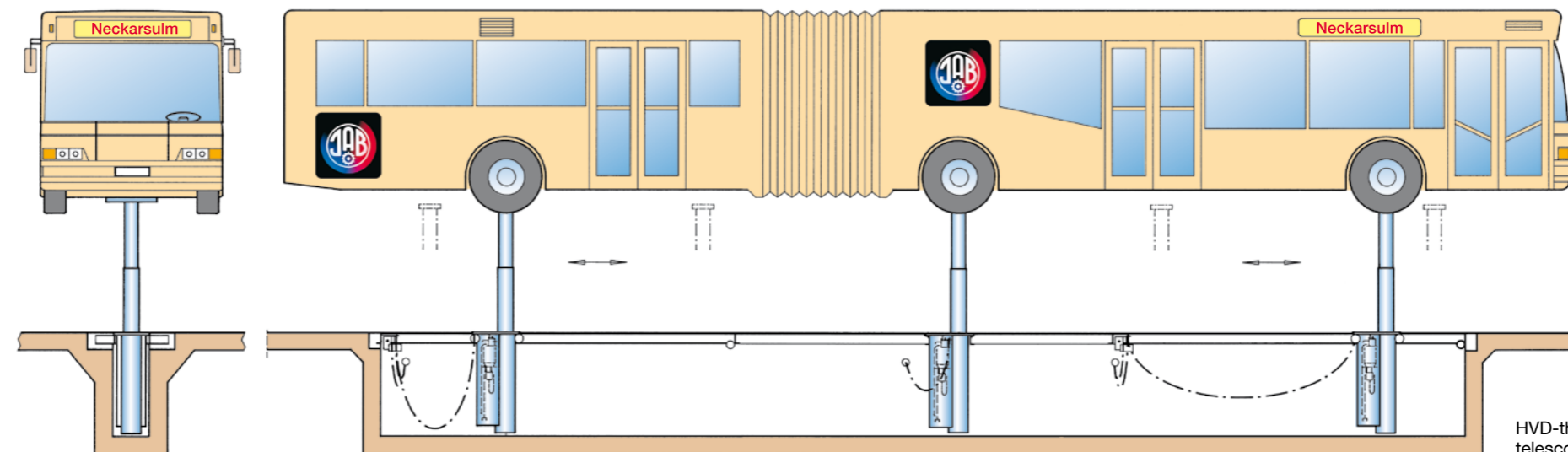
Via the AWBP-storage system the axle points can be stored in the control unit. This electronic helper makes possible a considerably faster and more fluid work process in daily practice.

A radio remote control unit can be used instead of control panel.

JAB: inherent safety is standard



Solved in an intelligent way: Thanks to the joint, safety bars are also available in the telescopic version.



HVD-three-ram-lift with telescopic cylinder.



Display (as option)

JAB lifts

Hydraulic universal and special lifts with a lifting capacity of up to 140.000 kg for cars, trucks, busses and for tracked and tramway vehicles. The JAB Product program includes all elements of 1-, 2-, 3-, 4- and multiple ram inground lifts.

JAB-Special equipment

Hydraulic lifting systems for plant engineering, production facilities and installation devices.

JAB compressors

Low-, medium- and high-pressure compressors for workshops, garages, industrial facilities and the energy industry, ranging from 10 to 350 bar; special filling equipment for breathing apparatus for professional use, pressure tanks up to 200 bar, compressed air cold driers, oil and water separation.



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