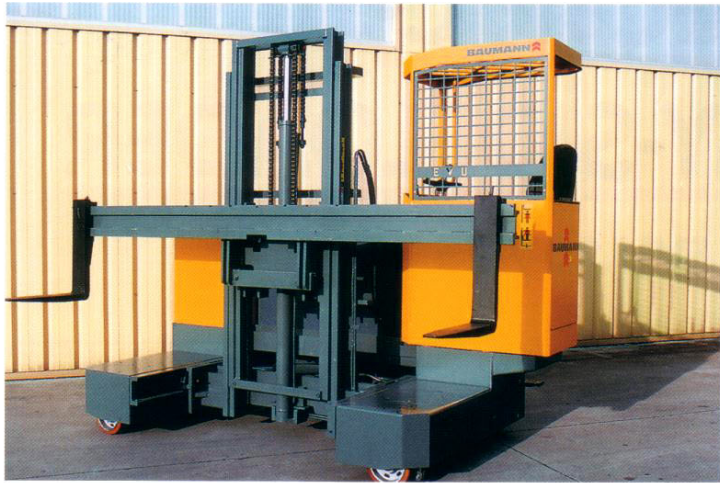


ELECTRIC- FOURWAY-SIDELoader

Series EVU 20 / 25 / 30



Electric-Fourway-Sideloader by **BAUMANN**



EVU 30

wide fork carriage



Lateral
stacking ability



EVU 30

Technical description

Electric-Fourway-Sideloaders

EVU 20 - 25 - 30

BAUMANN 

The Electric-Fourway-Sideloader EVU has two drive units, a 4 point wheel suspension and two hydraulically levelling cylinders on the twin wheels on the load side. The classic BAUMANN self-aligning bearing using hydraulically connected hydraulic cylinders with a low centre of gravity also serve to keep the upright vertical especially important when the stacking heights are high in narrow aisles.

Basic design:

A rigid welded chassis enables problem free working even under great loads. The driver's seat which is positioned so the driver is facing the forks and the main direction of travel enables the driver to work safely with minimum fatigue. A wide frame well (1,370 mm) means the pallets are picked up quickly either in a longitudinal or transverse direction.

Drive:

A large pivoted bogie with protective cast casing holds the motor – gearing unit. 2 x 3 kW driving output which can be controlled steplessly provide the vehicle with an energy efficient drive. Here too switching from driving forwards to reversing whilst driving is possible safely. When the vehicle is under regen braking, the drive motors work as generators to regain energy.

Chassis:

A four point support, two driving wheels and four load bearing wheels with connected levelling cylinders enable the Electric-Fourway-Sideloader to be used on uneven ground too. Optimum weight distribution resulting in reduced point loading. Excellent stability at all lift heights. The levelling cylinders also enable the platform to be inclined upwards or downwards.

Electronic control:

Integrated drive and lift control using MOSFET technology. All functions are microprocessor controlled and can be set individually using a hand set. Equipped with regen braking and plug braking as standard. Fault indication and analysis can be displayed. Tuning the control system to suit specific site requirements is possible by the hand set. Battery and temperature control as well as acceleration and speed ramps enable optimum performance and battery shift life.

Brakes:

Hydraulic service brake and electrical regen braking act automatically if the brake pedal is used. Energy is regained, the brakes are subject to reduced wear. Parking brake is operated by means of a button.

Steering:

Precise all wheel steering without mechanical linkage. Therefore less wear on tyres, direction is changed by pressing a button or using a joystick. Turning in a circle is possible without using the steering wheel. High degree of manoeuvrability thanks to the use of a microprocessor controlled computer which supports the hydraulic steering system – safety steering.

Driver's cabin:

Spacious driver's seat, with good vision onto and around the vehicle, tested in compliance with EN 1726 – 1, cabin with rubber mountings and excellent all round vision, guard to protect the cabin from loads on the side and on the roof of the cabin. Automotive pedal arrangement, the operating controls have been positioned ergonomically for easy and safe operation, operating hours counter as well as control indicators, discharge indicator and battery emergency off switch are positioned on the dashboard. Easy access on the side of the vehicle, cab access from the rear of the vehicle can be specified. Comfortable seat, fully sprung, adjustable position height and operator weight.

Hydraulic system:

Together with the hydraulics components, short runs of large bore pipe favour efficient flow of hydraulic fluid to ensure the optimum use of energy. All hydraulic components are easily accessible. The control valves guarantee sensitive, precise operation of all hydraulic functions. The hydraulic oil is filtered continuously by easily accessible flow and return line filters. The level of hydraulic oil can be easily checked on the hydraulic tank, test port connections to the hydraulic pump and control valves simplify maintenance work.

Upright:

A telescopic upright specially developed for a Sideloader available as a 2-stage standard free lift, 2-stage full free lift or 3-stage upright; manufactured from slender, special alloy steel profiles designed by BAUMANN for improved visibility. Angled upright rollers with rolling bearings to take axial and radial loads. Wide upright profiles guarantee maximum stability and service life.

Upright reach:

The horizontal transverse of the upright is achieved using hydraulic cylinders in the frame well. As it is guided by extremely long sliders, accurate even movement is possible. Running rails can be renewed easily, if required.

Standard upright:

For lift heights – collapsed heights – free lift heights etc. please refer to table.

Lifting cradle and forks:

Fork carriage made of high-strength steel with four angled rollers. The spacing between the rollers means that the load is distributed evenly within the upright and it runs smoothly. Fork carriage in compliance with class FEM 3. Forks made of forged alloy steel. For optimum load acceptance, the forks are angled towards the tips.

Standards:

In compliance with EN 1726-1, DIN 15138, FEM 4.001, ANSI B56, DIN 57117, VDE0117,91/368 EEC



Optional equipment:

Full free lift and 3-stage uprights. Hydraulic fork tilt +5° / -5°. Hydraulic adjustment of forks in the frame well. Foldable forks, knife type forks. Wide carriage with hydraulically adjustable forks. Height pre-selection.

Guide rollers:

Mechanical guide rollers, fitted on eccentric bolts on both sides for quick adjustment.

Special additional equipment upon request.

Battery:

Depending on the capacity required 48 Volt standard batteries, 24 cells with capacities of 400 – 450 Ah – 3 PzS or 560 – 600 Ah – 4 PzS are available. Battery discharge indicator with electronic lift interrupt.

Charger:

All common models available upon request.

Service:

BAUMANN Electric-Fourway-Sideloaders have been developed to be as easy to maintain as possible. All components are easily accessible. An electronic diagnostics system simplifies trouble shooting and reduces maintenance or repair times. Qualified mobile fitters are also available near you.

We reserve the right to make changes in terms of technical developments! The figures and photographs may also show special accessories which are not included as standard.