

# MATERIAL HANDLING EQUIPMENT





This user information presents a general review regarding the application of material handling equipment and does not substitute the existing operating instructions for specific industrial trucks and elevating platforms!

Operating industrial trucks as well as lifting operations must be carried out by competent persons. When operated correctly, our products will offer the highest degree of safety, avoid damage to products and people and present a long life expectancy.

## Modification of delivery condition

Design and construction of material handling products must not be altered by e.g. assembly of outside supplied components, bending, welding, grinding, cutting-off parts, adding boreholes, removal of safety devices or fitting of attachments.

## Limitations of operation

### Loading

The rated capacity (WLL) indicated on the product is the maximum load which must not be exceeded.

### Transport of people

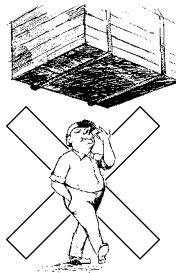
Transport of people with industrial trucks is generally forbidden!

### Operation in danger zones

Lifting or transport of loads must be avoided while personnel are in the danger zone.

Do not allow people to stay on or below a raised load.

Do not place hands or feet under the raised fork frame or load on account of the imminent danger of crushing or shearing.



## Inspection before starting work

- Prior to starting work, the unit must be inspected for obvious deficiencies and failures. Operational checks must be performed to ensure lifting, lowering and travel operate correctly.
- Check the parking brake is effective and the key switch operates correctly to protect against unauthorised use.
- Load carriage and forks must not show obvious defects (deflections, cracks or other wearing).
- Wheels and tires must not be defective.
- The hydraulic system must be in perfect order (lifting, lowering, density).
- The functional capability of the collision protective device should be checked.
- Battery charging status, fastening and cable connections of the battery as well as battery plug must be inspected for appropriate status as well as the battery cell lids (dry, clean).

## Application advices

- Our material handling equipment must be operated on in-plant areas only.
- Only use industrial trucks in perfect condition and with legible identity plate.
- Industrial trucks may only be operated by skilled people, who have been instructed (in theory and practice) by the responsible user.
- The travel speed must conform to local conditions.
- Industrial trucks must be operated on flat, level and even ground.
- The operator must make sure that the load unit is in perfect condition and safely attached.
- Pallets may be transported individually only.
- Industrial trucks must not be used as car jacks.
- Industrial trucks must not be used in areas which are not illuminated sufficiently.
- Forks may not be used as levers.
- Loading of just one fork, e.g. for lifting of a machine, is strictly forbidden.
- Industrial trucks may not be operated in direct contact with foodstuffs.
- Never turn the hand lever 90° in order to stop the truck.
- The industrial truck must not be operated in explosive atmospheres (special versions on request).

## Maintenance and repair

- To ensure safe operation, all material handling equipment must be subjected to regular inspections according to the maintenance instructions provided by the manufacturer.
- Material handling equipment, which is due for maintenance normally at least once per year, unless adverse working conditions dictate shorter periods.
- Inspections and repairs must be performed by competent persons or specialist workshops that use original spare parts. Inspections and repairs have to be recorded consecutively.

## Inspections

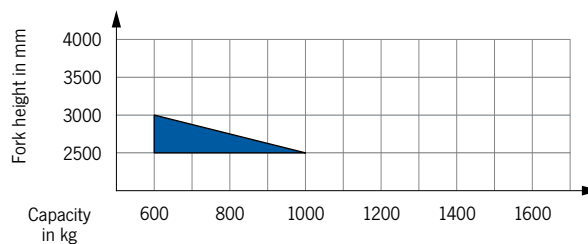
- Inspections are visual and functional and shall establish that the product has not been damaged by incorrect transport or storage. In addition check for damage, wear, corrosion or other deficiencies as well as completeness and function safety devices. Inspections are instigated by the user.
- Material handling products have to be cleaned prior to inspection. The cleaning procedure must not cause chemical damages (e.g. no acid – embrittlement) no incorrect temperature stress by e.g. flame cleaning or possible concealment of cracks due to excessive material abrasion (sand blasting).  
We shall be pleased to consult you in this respect!
- **Inspection of fork frame**  
The fork frame has to be checked regularly for obvious defects, deformations and cracks as well as wear and corrosion.
- **Inspection of control handle**  
The control handle must be checked regularly for obvious defects, deformations, cracks. Moreover, check screws for fixed seat.
- **Inspection of oil level**  
Check oil level every six months (oil viscosity 30 Cst at 40 °C). At ambient temperature around 0 °C we recommend AVILUB RSL 22.
- **Inspection of lubrication and density**  
Bolts, axles and push rods should be cleaned and lubricated depending on application with e.g. Shell FD or comparable grease.
- The hydraulic unit has to be checked regularly for density.



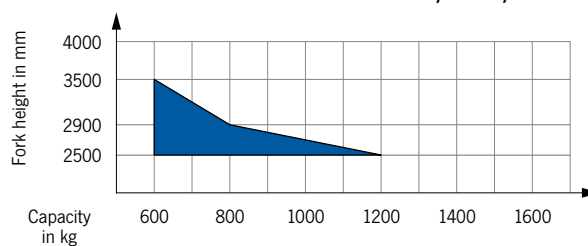


## Load diagrams for residual carrying capacities

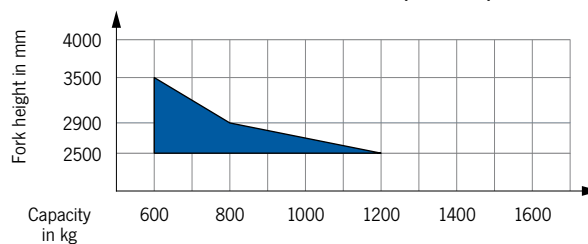
**EHH PSE 10-30**



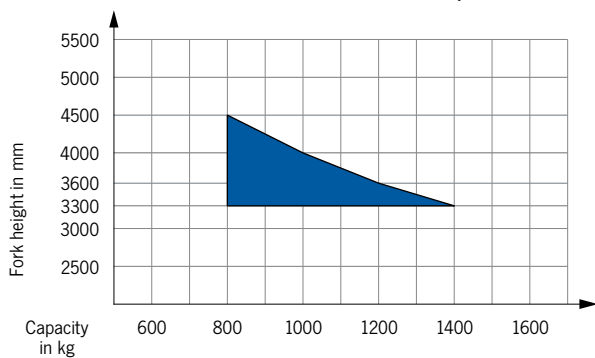
**EHH PS 12-25/12-29/12-35**



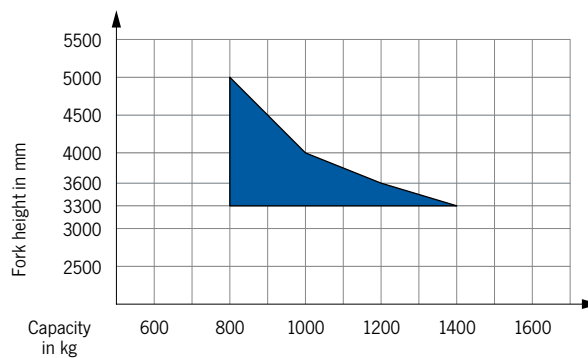
**EGV PSL 12-25 II/12-29 II/12-35 II**



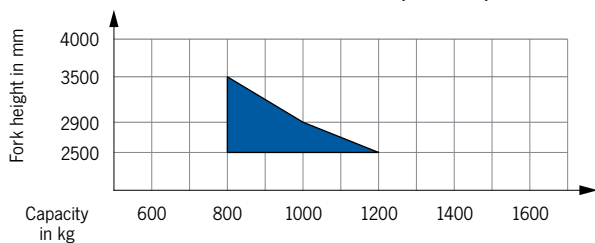
**EGV PSH 14-45 T II/14-45 TF II**



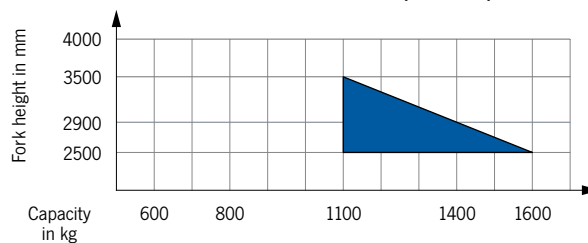
**EGV PSH 14-50 T II**



**EGV PSH 12-25 II/12-29 II/12-35 II**



**EGV PSH 16-25 II/16-29 II/16-35 II**



## Technical questionnaire to identify a suitable material handling product

Company: \_\_\_\_\_

Date: \_\_\_\_\_

Contact: \_\_\_\_\_

e-Mail: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Capacity \_\_\_\_\_ kg

Fork height max. \_\_\_\_\_ mm

Freelift \_\_\_\_\_ mm

Required residual lifting  
capacity \_\_\_\_\_ mm

At fork height \_\_\_\_\_ mm

Headroom with mast retracted \_\_\_\_\_ mm

### Lifting

☐ manual-hydraulic

☐ electric-hydraulic

### Drive

☐ manual

☐ electric

### Transport and stacking of:

☐ palletised goods

☐ long goods

☐ loading lorries

Special requests

\_\_\_\_\_

\_\_\_\_\_

### Lengths of application per shift

☐ up to 2 hours

☐ up to 4 hours

☐ up to 6 hours

☐ up to 8 hours

Shifts per day

\_\_\_\_\_

### Drivers platform

☐ yes

☐ no

