

EXU-S Technical Data

Low Lift Pallet Truck with Driver's Stand-On Platform

EXU-S 22

EXU-S 22 Li-Ion

EXU-S 24

EXU-S 24 Li-Ion



EXU-S Low Lift Pallet Truck with Driver's Stand-On Platform

Robust and efficient

This specification sheet, which conforms to VDI guideline 2198, provides the technical values for the standard equipment only. Different tyres, other masts, additional equipment etc. may produce different figures.

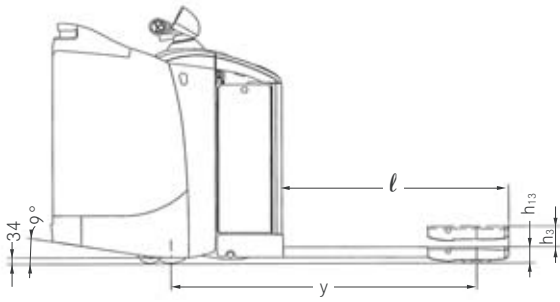


| | | | | | STILL | STILL | STILL | STILL |
|------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------|----------------------------------|-------------------------|---------------------|-------------------------|---------------------|
| Features | 1.1 | Manufacturer | | | EXU-S 22/ Li-Ion | EXU-S 22/ Li-Ion | EXU-S 24/ Li-Ion | EXU-S 24/ Li-Ion |
| | 1.2 | Manufacturer's type designation | | | Rear access | Side access | Rear access | Side access |
| | | Platform type | | | Electro | | Electro | |
| | 1.3 | Drive | | | Standing | | Standing | |
| | 1.4 | Operator type | | | | | | |
| | 1.5 | Capacity/load | Q | kg | 2200 | | 2400 | |
| | 1.6 | Load centre | c | mm | 600 | | 600 | |
| | 1.8 | Load distance | x | mm | 1023 | | 1005 | |
| | 1.9 | Wheel base | y | mm | 1617 | | 1599 | |
| Weights | 2.1 | Service weight (incl. battery) | | kg | 1120 | | 1150 | |
| | 2.2 | Axle loading, laden | drive end/load end | kg | 1500/1820 | | 1317/2233 | |
| | 2.3 | Axle loading, unladen | drive end/load end | kg | 910/210 | | 918/232 | |
| Tyres/chassis | 3.1 | Tyres | | | Polyurethane | | Polyurethane | |
| | 3.2 | Tyre size | drive end | mm | ∅ 250 x 100 | | ∅ 250 x 100 | |
| | 3.3 | Tyre size | load end | mm | ∅ 85 x 80 | | ∅ 85 x 80 | |
| | 3.4 | Support castors | drive end | mm | 2 x ∅ 140 x 54 | | 2 x ∅ 140 x 54 | |
| | 3.5 | Number of wheels (x = driven) | drive end/load end | | 1x + 2/4 | | 1x + 2/4 | |
| | 3.6 | Tread | drive end/load end | b ₁₀ /b ₁₁ | mm | 470/388 | | 470/388 |
| Basic dimensions | 4.4 | Lift | h ₃ | mm | 130 | | 130 | |
| | 4.8 | Standing height (platform) | h ₇ | mm | 225 | | 225 | |
| | 4.9 | Height of tiller in driving position | min./max. | h ₁₄ | mm | 1030 | | 1030 |
| | 4.15 | Height when lowered | | h ₁₃ | mm | 85 | | 85 |
| | 4.19 | Overall length without load | | l ₁ | mm | 2415 ¹ | 2487 ¹ | 2415 ¹ |
| | 4.20 | Length to face of forks | | l ₂ | mm | 1225 ¹ | 1297 ¹ | 1225 ¹ |
| | 4.21 | Total width | | b ₁ | mm | 720 | | 720 |
| | 4.22 | Fork dimensions | | s/e/l | mm | 55/172/1190 | | 61/172/1190 |
| | 4.25 | Overall fork width | | b ₅ | mm | 560 | | 560 |
| | 4.32 | Ground clearance, centre of wheel base | | m ₂ | mm | 30 | | 30 |
| | 4.34 | Working aisle width with 800 x 1200 pallet lengthways (b ₁₂ x l ₆) | | A _{st} | mm | 2821 ¹ | 2890 ¹ | 2814 ¹ |
| 4.34.1 | Working aisle width with 1000 x 1200 pallet lengthways (b ₁₂ x l ₆) | | A _{st} | mm | 2791 ^{1,2} | 2861 ^{1,2} | 2781 ^{1,2} | |
| 4.35 | Turning radius | | W _a | mm | 2125 ¹ | 2195 ¹ | 2107 ¹ | |
| Performance | 5.1 | Travel speed | laden/unladen | km/h | 10/12 | | 9/12 | |
| | 5.2 | Lift speed | laden/unladen | m/s | 0.043/0.062 | | 0.043/0.062 | |
| | 5.3 | Lowering speed | laden/unladen | m/s | 0.068/0.065 | | 0.068/0.065 | |
| | 5.7 | Gradeability | laden/unladen | % | 10%/15% | | 9.3%/15% | |
| | 5.9 | Acceleration time (over 10 m) | laden/unladen | s | 6.2/4.6 | | 6.3/4.8 | |
| 5.10 | Service brake | | | | Electromagnetic | | Electromagnetic | |
| Electric engine | 6.1 | Drive motor, rating S2 = 60 min | | kW | 3.0 | | 3.0 | |
| | 6.2 | Lift motor, rating at S3 = 15% | | kW | 2.2 | | 2.2 | |
| | 6.3 | Battery according to DIN 43531/35/36; A, B, C, no | | | No | | No | |
| | 6.4 | Battery voltage/nominal capacity K ₅ | | V/Ah | 24/465 // Li-Ion 24/410 | | 24/465 // Li-Ion 24/410 | |
| | 6.5 | Battery weight ±5% (depends on make) | | kg | 405 | | 405 | |
| | 6.6 | Energy consumption according to VDI cycle | | kWh/h | 1.05 | | 1.07 | |
| Misc. | 8.1 | Drive control | | | AC control | | AC control | |
| | 8.4 | Sound level at driver's ear | | dB(A) | <65 | | <65 | |

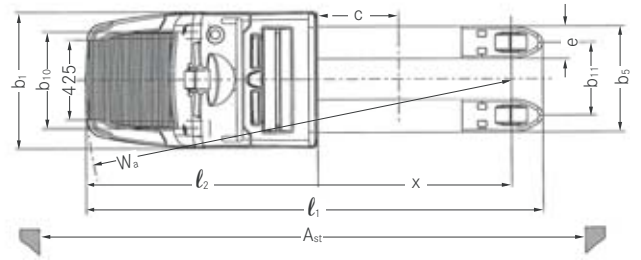
¹ With 600 Ah battery compartment: + 85 mm

² Values calculated for a fork length of 990 mm

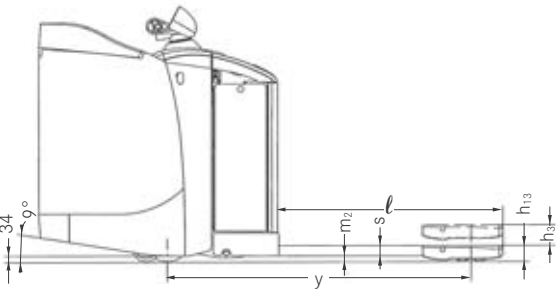
EXU-S Low Lift Pallet Truck with Driver's Stand-On Platform
 Technical Drawings



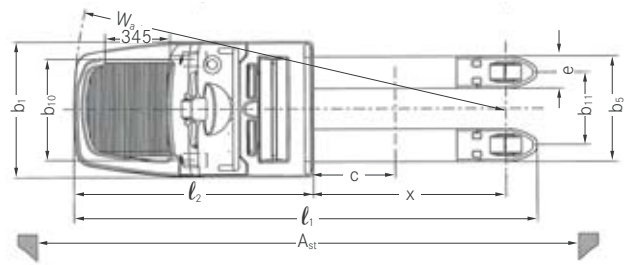
EXU-S side view with rear access



EXU-S top view with rear access



EXU-S side view with side access



EXU-S top view with side access

Turning Radius Table

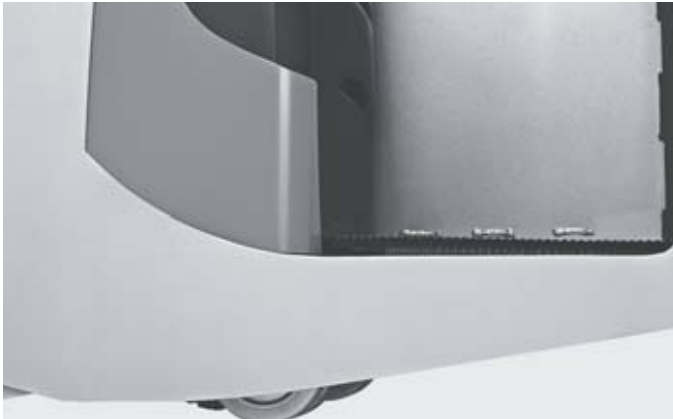
Turning radius W_a for determining the working aisle width

| | | | | Rear access | | | Side access | | |
|-------------------------------|---------------------|------|------|---------------|--------|--------|---------------|--------|--------|
| | | | | 410 Ah Li-Ion | 465 Ah | 600 Ah | 410 Ah Li-Ion | 465 Ah | 600 Ah |
| EXU-S 22 / EXU-S 22 Li-Ion | Battery compartment | | | | | | | | |
| | Fork length l | | | Distance x | | | | | |
| | 990 | mm | 823 | 2038 | 2038 | 2123 | 2108 | 2108 | 2193 |
| | 1190 | mm | 1023 | 2238 | 2238 | 2323 | 2308 | 2308 | 2393 |
| | | | | | | | | | |
| | | | | | | | | | |
| EXU-S 24 / EXU-S 24 Li-Ion | Battery compartment | | | 410 Ah Li-Ion | 465 Ah | 600 Ah | 410 Ah Li-Ion | 465 Ah | 600 Ah |
| | Fork length l | | | Distance x | | | | | |
| | 990 | mm | 805 | 2020 | 2020 | 2105 | 2090 | 2090 | 2175 |
| | 1190 | mm | 1005 | 2220 | 2220 | 2305 | 2290 | 2290 | 2375 |
| | 1600 | mm | 1415 | 2630 | 2630 | 2715 | 2700 | 2700 | 2785 |
| | 2390 ¹ | mm | 2205 | 3420 | 3420 | 3505 | 3490 | 3490 | 3575 |
| 2390 ² | mm | 1847 | 3062 | 3062 | 3147 | 3132 | 3132 | 3217 | |

¹ Wheel base suitable for lifting three Euro pallets crossways

² Wheel base suitable for lifting two Euro pallets lengthways

EXU-S Low Lift Pallet Truck with Driver's Stand-On Platform Detailed Photos



Built for ramps: slanted chassis design allows the truck to travel on ramps of up to 9°



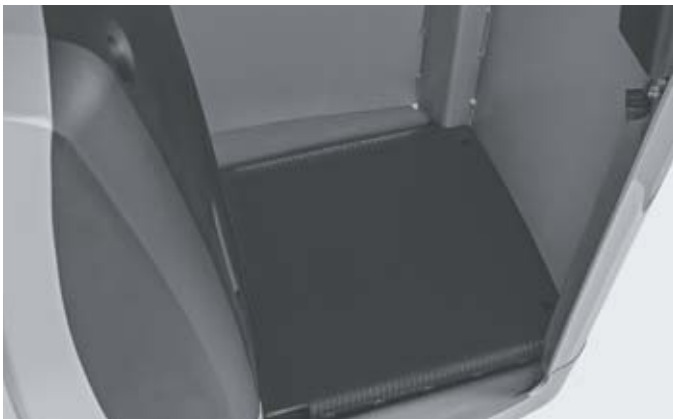
Ultimate availability: either with lateral lead-acid battery changing as standard, for fast, safe replacement, or with interim charging of a lithium-ion battery



Everything permanently within reach: thanks to the STILL COCKPIT, both left and right-handed users can intuitively operate all of the truck's functions using ergonomic control elements



Comfortable even over long distances: left-hand side access means the driver can lean back during long stretches of driving



Comfortable driving: cushioned stand-on platform for the driver improves ability to concentrate



High pallet reloading rate: fast and precise operation thanks to rounded fork tips for easy threading into the pallets



Outstanding for double-sided order picking: with rear access, both sides are quickly within reach, which saves time



Comfortable, no matter the distance: over long stretches, the driver can lean back on the backrest, allowing them to work in a more relaxed position

EXU-S Low Lift Pallet Truck with Driver's Stand-On Platform
Robust and efficient



EXU-S Low Lift Pallet Truck with Driver's Stand-On Platform Robust and efficient

High pallet reloading rate, with a top speed of 12 km/h
and compact dimensions

Long-lasting lifespan: battery capacity of up to 620 Ah
and also available with lithium-ion battery at up to 410 Ah

Fast and safe: fully electric steering with electronic filtering of
unwanted steering movements

Enhanced manoeuvrability on ramps due to the slanted chassis



EXU-S

STILL's EXU-S series of low lift pallet trucks with driver's stand-on platform have been specially designed for the loading and unloading of HGVs using ramps. The slanted chassis mitigates the risk of becoming stuck or jammed on ramp transitions and ensures swift, safe movement on ramps. Steering is particularly smooth, while also offering manoeuvrability in even the narrowest of spaces. The trucks are available in two different platform designs. The side access model delivers optimal driver comfort and safety for handling work and horizontal transport over long distances, while the rear access model is the ideal choice for any application that requires the operator to regularly get on and off the truck.

EXU-S Li-Ion

The EXU Li-Ion is an efficient and compact bundle of energy which guarantees optimum availability. Not only is interim charging of the low lift pallet truck possible, but the charging process itself is significantly quicker than that of conventional lead acid batteries – the lithium-ion battery can be charged to 60 percent in just 40 minutes. What's more, the lithium-ion battery lasts around twice as long as a lead acid battery, is maintenance-free and can be used in a cold store. This groundbreaking technology is also setting new standards with regard to safety. Every battery cell is monitored in real time. In short, the EXU-S Li-Ion is the ideal low lift pallet truck for extended periods of operation in industry, the retail market and logistics.

Extensive Equipment

Power

- Specially developed frame allows for rapid loading and unloading of HGVs, as well as fast and safe movement on ramps
- Maintenance-free, enclosed 3 kW three-phase drive motor with a maximum driving speed of 12 km/h is perfect for middle to long distances. The powerful 2.2 kW lift motor ensures optimal efficiency when lifting and lowering loads
- Low maintenance, long-lived batteries with a capacity of up to 620 Ah offer high availability. Also available with lithium-ion battery of up to 410 Ah for particularly intensive applications

Precision

- Fatigue-free, precise and safe working conditions – even in the narrowest of spaces – thanks to smooth electric steering
- High reloading performance: rounded, cast iron fork tips enable swift threading into pallets
- Reliability guaranteed: compact design delivers excellent manoeuvrability as well as precise, smooth driving in a straight line

Ergonomics

- Fatigue-free operation: fully sprung stand-on platform guarantees vibration-free operation, allowing the driver to concentrate on their work
- Optimal driver comfort: an ideal lateral support and upholstered backrest ensure the driver's comfort – even over long distances
- The chassis is available in either side access or rear access models if desired

Compactness

- Tilted chassis ensures fantastic manoeuvrability on ramps without becoming stuck or jammed on the ramp's transition
- Precise and mobile: compact dimensions allow for fast, safe work in even the tightest of spaces

Safety

- Automated speed reduction and twin support castors ensure safe handling around corners
- As soon as the operator lets go of the COCKPIT control element or steps off the truck, the brakes are automatically applied

Environmental Responsibility

- Low operating costs: low energy costs and long service intervals
- Optimal energy efficiency: ECO driving mode reduces electricity consumption without affecting productivity
- Over 95 percent of all materials used are recyclable

EXU-S Low Lift Pallet Truck with Driver's Stand-On Platform Equipment Variants



| | | EXU-S 22 | EXU-S 24 | EXU-S Li-Ion |
|---------------------------------------------|-----------------------------------------------------------------------|----------|----------|--------------|
| Driver's cab | Driver platform with upholstered backrest in side access version | ● | ● | ● |
| | Cushioned driver stand-on platform | ● | ● | ● |
| | Access from the left side | ○ | ○ | ○ |
| | Access from the rear | ○ | ○ | ○ |
| | Accessories bracket on the drive side | ○ | ○ | ○ |
| | Adjustable DIN A4 writing pad | ○ | ○ | ○ |
| Basic dimensions | External width b ₅ = 520 mm | ○ | ○ | ○ |
| | External width b ₅ = 560 mm | ● | ● | ● |
| | External width b ₅ = 670 mm | ○ | ○ | ○ |
| | Various fork lengths | ○ | ○ | ○ |
| Tyres | Load rollers, polyurethane, single | ○ | ○ | ○ |
| | Load rollers, polyurethane, tandem | ● | ● | ● |
| | Load rollers, polyurethane, single, lubricated axles and lifting link | ○ | ○ | ○ |
| | Load rollers, polyurethane, tandem, lubricated axles and lifting link | ○ | ○ | ○ |
| | Drive wheel, polyurethane | ● | ● | ● |
| | Drive wheel, polyurethane, profiled | ○ | ○ | ○ |
| | Stabilising wheel, single | ○ | ○ | ○ |
| Stabilising wheel, twin | ● | ● | ● | |
| Battery system | Battery compartment for 345-465 Ah batteries with roller track | ● | ● | — |
| | Battery compartment for 480-620 Ah batteries with roller track | ○ | ○ | — |
| | Battery compartment for 205 Ah li-ion battery | — | — | ● |
| | Battery compartment for 410 Ah li-ion battery | — | — | ○ |
| | Sheet steel battery cover | ○ | ○ | ○ |
| Safety and performance | Load backrest with a height of 1200 mm | ○ | ○ | ○ |
| | Load backrest with a height of 1800 mm | ○ | ○ | ○ |
| | FleetManager: access authorisation, shock detection, reports | ○ | ○ | ○ |
| | Shock detection with simultaneous activation of creep-speed mode | ○ | ○ | ○ |
| | Access control using digital codes | ● | ● | ● |
| | Curve speed control | ● | ● | ● |
| | Characteristic curve optimised start-up | ● | ● | ● |
| Maximum start-up with maximum driving speed | ○ | ○ | ○ | |
| Additional equipment | Cold store version down to -30 °C with exchangeable insert | ○ | ○ | ○ |
| | Operating hours counter | ● | ● | ● |
| | Provision for material flow management system (MMS) | ○ | ○ | ○ |
| | Data transfer using Bluetooth | ○ | ○ | ○ |
| | Data transfer using GPRS | ○ | ○ | ○ |

● Standard ○ Optional — Not available

STILL



STILL Materials Handling Ltd
Aston Way
Leyland Preston
PR26 7UX
Tel.: +44 (0)845 603 6827

STILL Materials Handling Ltd
Jacks Way
Hill Barton
Business Park
Clyst St. Mary
Exeter
EX5 1FG
Tel.: +44 (0)345 603 6827

info@still.co.uk

For further information please visit:

www.still.co.uk



STILL is certified in the following areas: Quality management, occupational safety, environmental protection and energy management.



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