



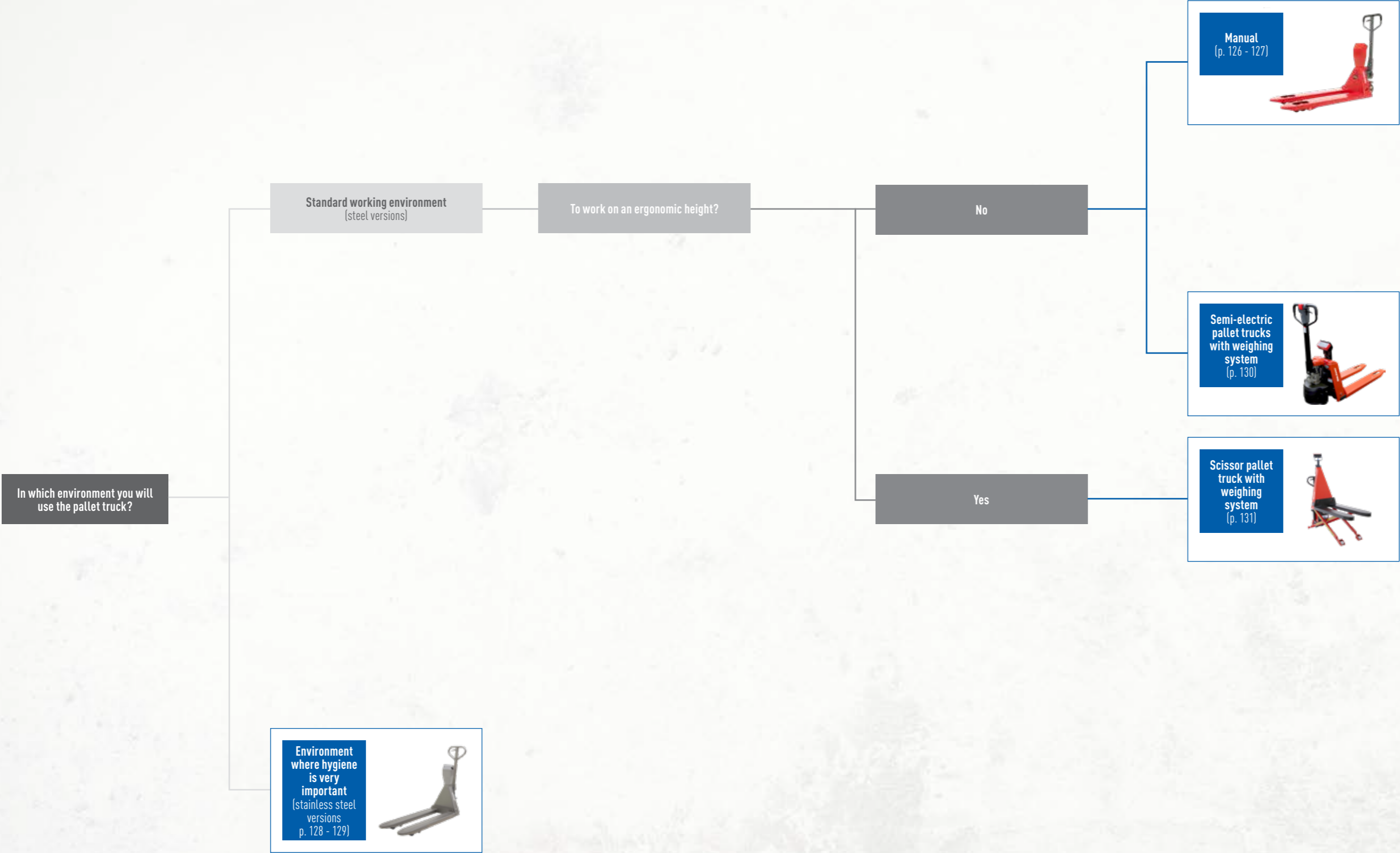
2. WEIGHING SYSTEMS



Just think about warehouses, ports ... Every day or multiple times a week, heavy shipments arrive that must be weighed for inspection. Boxes and drums are first dragged from boats or lorries to a pair of scales, after which they leave for their destination. A tough job that often leads to backache. Wouldn't it be better if moving and weighing the goods could be done in one single action? The weighing pallet truck is the ideal solution! This device operates in the same way as a normal pallet truck, but is equipped with a weighing system that is integrated into the forks.

2.1. WEIGHING PALLET TRUCKS

Overview



Manual pallet trucks with weighing scales steel

TOTAL SOURCE®

A weighing pallet truck combines 2 functions in one device: a pallet truck to move goods and a weighing system. This means you can weigh while transporting loads.

The main advantage is that the weighing pallet truck saves you time and extra costs: as there is no more need for a separate pair of scales, you no longer need to take your loads on a detour via a pair of scales. In other words, you let the weighing pallet truck perform the task for you.

When you use a weighing pallet truck for commercial purposes, a calibration certificate or legal-for-trade certificate is required. These certificates are also important to comply with the SOLAS legislation. The SOLAS legislation requires the gross weight of containers to be known before they are loaded onto ships.



Weighing indicator for model TRW0008



Weighing indicator with printer (available on TRW0001, TRW0002 and TRW0003)



Rechargeable battery (available on TRW0002 and TRW0003)

Features

- › Time-saving since you no longer have to go to a floor scale
- › Cost-saving because of efficient weighing method
- › 4 weighing cells for an accurate weighing, integrated in the chassis
- › Calibrated means accurate measurements
- › Automatic sleep mode for lower battery consumption
- › Rechargeable battery (for models TRW0002 and TRW0003)
- › Made in Europe
- › Protection class IP65 ensures water resistance

Technical specifications

- › Load capacity: 2000 kg
- › Material of the pump: painted steel (casted)
- › Length of the forks: 1150 mm
- › Width across the forks: 555 mm
- › Minimum height: 85 mm
- › Steering wheels in rubber
- › Fork wheels: tandem / polyurethane
- › Weighing system: load cells, integrated in the chassis
- › Accuracy: 0,10% of maximum capacity
- › Standard calibrated

Lifting height	Scale division	Type of battery	Rechargeable battery	Printer present	Certificate	Model	Colour of the pallet truck	REF
mm	kg							
200	1	2 x 1,5 V (AA)	No	No	N/A	TRW0008	Yellow	165TA1418 *
205	0,5	4 x 1,5 V (AA)	No	No	N/A	TRW0001	Red	127TA3161
205	0,5	4 x 1,5 V (AA)	No	Yes	N/A	TRW0001	Red	165TA9362
205	0,1	12 V	Yes	No	Calibration certificate	TRW0002	Red	144TA8853
205	0,1	12 V	Yes	Yes	Calibration certificate	TRW0002	Red	144TA8854
205	1	12 V	Yes	No	Certified legal for trade	TRW0003	Red	144TA8855
205	1	12 V	Yes	Yes	Certified legal for trade	TRW0003	Red	144TA8856

*Quick lift pump

Product movie

There are many reasons to opt for a weighing pallet truck instead of a standard pallet truck.

Curious? Discover the benefits in our product movie. It takes just 1 minute to watch but will save you many more minutes in your operational activities.



Manual pallet trucks with weighing scales stainless steel

TOTAL SOURCE®

Warehouses and ports are of course not the only locations where heavy loads are delivered. Just think about the food industry, the chemical and pharmaceutical sector and other health-related branches. In places where hygiene is important, high-quality stainless steel applications are a must. This material offers resistance against high and low temperatures, is easy to clean and keep free of corrosion. As a result, you can also use these devices in humid conditions.

When you use a weighing pallet truck for commercial purposes, a calibration certificate or legal-for-trade certificate is required. These certificates are also important to comply with the SOLAS legislation. The SOLAS legislation requires the gross weight of containers to be known before they are loaded onto ships.

Technical specifications

- › Load capacity: 2000 kg
- › Made of stainless steel AISI 304
- › Length of the forks: 1150 mm
- › Width across the forks: 550 mm
- › Lifting height: 200 mm
- › Minimum height: 85 mm
- › Steering wheels in nylon
- › Fork wheels: tandem / nylon
- › Weighing system: load cells, integrated in the chassis
- › Accuracy: 0,10% of maximum capacity
- › Standard calibrated

Scale division	Material of the weighing pallet truck	Material of the pump	Type of battery	Rechargeable battery	Printer present	Certificate	Model	REF
kg								
0,5	Semi-stainless steel	Galvanised steel (welded)	4 x 1,5 V (AA)	No	No	N/A	TRWI0001	165TA9363
0,5	Semi-stainless steel	Galvanised steel (welded)	4 x 1,5 V (AA)	No	Yes	N/A	TRWI0001	165TA9364
0,1	100% stainless steel	Stainless steel (welded)	12 V	Yes	No	Calibration certificate	TRWI0002	163TA7971
0,1	100% stainless steel	Stainless steel (welded)	12 V	Yes	Yes	Calibration certificate	TRWI0002	163TA7972
1	100% stainless steel	Stainless steel (welded)	12 V	Yes	No	Certified legal for trade	TRWI0003	163TA7973
1	100% stainless steel	Stainless steel (welded)	12 V	Yes	Yes	Certified legal for trade	TRWI0003	163TA7974



Features

- › Time-saving since you no longer have to go to a floor scale
- › Cost-saving because of efficient weighing method
- › 4 weighing cells for an accurate weighing, integrated in the chassis
- › Calibrated means accurate measurements
- › Automatic sleep mode for lower battery consumption
- › Great resistance against low and high temperatures (-38 °C up to 40 °C) making this model suitable for the food and chemical industry
- › Corrosion-resistant so ideal to use in wet conditions
- › Made in Europe
- › Protection class IP65 ensures water resistance

Semi-electric pallet truck with weighing system

Electric scissor pallet truck with weighing scale



TOTAL SOURCE®

This semi-electric mobile weighing system enables simultaneous transporting, lifting and weighing. In addition to all features of a standard pallet truck, you require less effort to move the pallet truck as it is electrically driven. No more driving back and forth to a fixed floor scale with every pallet or container: mobile weighing is a highly efficient way to improve your logistics and production processes.

- › European quality
- › Optional Bluetooth integration for smartphone
- › Dual-colour, 22 mm LCD display with backlight
- › Rechargeable battery
- › Accuracy: maximum 0,1% of lifted load

Features

- › Automatic and manual zero correction
- › Gross/net weighing
- › Standard indicator 3200
- › Automatic and manual tare entry
- › Totalling with sequence number
- › Code entry (5-digits)
- › RS232 port for connection with printer
- › Bluetooth 4.0 for WeightsApp
- › Internal clock for date and time
- › Error messages on display
- › Protection class IP65 ensures water resistance
- › European quality

Available on request

- › Indicator 5200 with piece-counting functionality
- › Thermal or matrix 12 V printer
- › Bluetooth or WiFi data transfer
- › RDC, Data Collector Software
- › Reference scale (for more accurate piece-counting)

Technical specifications

- › Model: ELP15W
- › Weighing capacity: 1500 kg
- › Graduation multi-range: 0.5 kg up to 500 kg, 1 kg from 500 up to max 1500 kg
- › Accuracy: maximum 0,1% of lifted load
- › Maximum height of the pallet truck: 1240 mm
- › Maximum lifting height: 200 mm
- › Minimum lifting height: 90 mm
- › Width across the forks: 560 mm
- › Length of the forks: 1150 mm
- › Power supply via truck battery
- › Battery: 24 V / 30 Ah Pb battery incl charger
- › Drive motor: 0,65 kW
- › Material of the fork wheels: tandem/polyurethane
- › Material of the steering wheel: polyurethane
- › Material of the pump: galvanised steel

REF [165TA7896](#)



TOTAL SOURCE®

This semi-electric mobile weighing system enables lifting and weighing at the same time. While you are lifting your load with the scissors, you are immediately aware of the weight of your goods without the need of an extra weighing scale. 2 functions in one system which considerably reduces the duration of your logistical flow.

- › Delivered with handle mounted
- › European quality
- › Optional Bluetooth integration for smartphone
- › LCD display (18 mm)
- › Maximum 0,1% error of lifted load

Technical specifications

- › Model: TRSEW0001
- › Weighing capacity: 1000 kg
- › Graduation multi-range: 0.5 kg up to 500 kg, 1 kg from 500 up to max 1500 kg
- › Accuracy: maximum 0,1% of lifted load
- › Maximum lifting height: 740 mm
- › Minimum lifting height: 92 mm
- › Free lifting height: 400 mm
- › Width of the forks: 180 mm
- › Length of the forks: 1200 mm
- › Battery 12 V / 50 Ah
- › Including charger 5 A
- › Battery autonomy: 5 hours continuous lifting
- › Lift motor: 12 V / 0,8 kW
- › Lift speed unloaded: 0,08 m / sec
- › Lift speed loaded: 0,05 m / sec

REF [165TA7234](#)

Available on request

- › Other indicator types: 4100, 6100 (3200, 5200)
- › Thermal or matrix printer 12 V
- › Bluetooth or WiFi data transfer
- › Reference scale (for more accurate piece-counting)



Floor scales

- › Platform dimensions: 1200 x 1200 x 110 mm
- › Scale division: 0,5 kg
- › Accuracy: 0,50% of maximum capacity

REF 143TA4427 - 1500 kg capacity

REF 165TA7217 - 3000 kg capacity

Loading ramp is not included, can be ordered separately

REF 144TA3739

Notes



Weighing forks are time - and energy - savers: not only can you easily transport the goods, they also allow you to view and track the weight of the products as you lift them. We offer two types of weighing forks: one with rechargeable DC battery pack and one with rechargeable lithium battery.

2.2. WEIGHING FORKS

Weighing forks



These unique and innovative forks are time- and energy-savers: not only can you easily transport the goods, they also allow you to view and track the weight of the products as you lift them.

The wireless display uses Bluetooth technology, enabling you to view and track the weight of individual loads and total weight of multiple loads. This system offers piece-counting, code entry and date and time registration along with the basic scale functions.

The information is transmitted from each fork to the wireless display, allowing for a simple installation with absolutely no cables.



Features

- Low installation costs so lower initial investment and higher return on investment
- Minimal displacement of load centre equals more lifting capacity
- Excellent view of fork tips: more safety and less accidents
- Scale components are easily accessible and digitally calibrated: less maintenance
- Can be used in combination with fork positioners
- Each fork has its own rechargeable battery pack which includes a charger for both batteries
- Digital calibration
- Bluetooth data transfer
- Automatic shut-off function for optimal battery life
- Automatic and manual zero correction
- Automatic tare and manual tare weight entry
- Weight correction for forklift mast tilt
- 5-minute installation

Technical specifications

- Capacity: 2500 kg
- Fork length: 1150 mm
- Width of the forks: 133 mm
- Thickness of the forks: 59 mm
- Weight of one fork: 67 kg
- Ground clearance FEM 2A: 76 mm
- Ground clearance FEM 2B: 152 mm

Type	Weight graduation*	ISO 2328	Extra	REF Fork drop A	REF Fork drop B
	kg				
2500 economy	2	2		165TA9365	165TA9368
2500 economy	2	2	Thermal printer	165TA9366	165TA9369
2500 performance	1-2	2	Integrated power converter + thermal printer + legal-for-trade certificate	165TA9367	165TA9370

Technical specifications

- Capacity: 3000 kg
- Fork length: 1150 mm
- Width of the forks: 153 mm
- Thickness of the forks: 59 mm
- Weight of one fork: 79 kg
- Ground clearance FEM 2A: 76 mm
- Ground clearance FEM 2B: 152 mm

Type	Weight graduation*	ISO 2328	Extra	REF Fork drop A	REF Fork drop B
	kg				
3000 performance	1-2	3	ISO calibration certificate	165TA9371	165TA9376
3000 performance	1-2	3	Integrated power converter + ISO calibration certificate	165TA9372	165TA9377
3000 performance	1-2	3	Integrated power converter + thermal printer + ISO calibration certificate	165TA9373	165TA9378
3000 performance	1-2	3	Integrated power converter + Bluetooth output for communication with PDA + ISO calibration certificate	165TA9374	165TA9379
3000 performance	1-2	3	Integrated power converter + thermal printer + legal-for-trade certificate	165TA9375	165TA9380

Technical specifications

- Capacity: 5000 kg
- Fork length: 1150 mm
- Width of the forks: 173 mm
- Thickness of the forks: 74 mm
- Weight of one fork: 119 kg
- Ground clearance FEM 2A: 76 mm
- Ground clearance FEM 2B: 152 mm

Type	Weight graduation*	ISO 2328	Extra	REF Fork drop A	REF Fork drop B
	kg				
5000 performance	1-2	3	ISO calibration certificate	165TA9381	165TA9386
5000 performance	1-2	3	Integrated power converter + ISO calibration certificate	165TA9382	165TA9387
5000 performance	1-5	3	Integrated power converter + thermal printer + ISO calibration certificate	165TA9383	165TA9388
5000 performance	1-5	3	Integrated power converter + Bluetooth output for communication with PDA + ISO calibration certificate	165TA9384	165TA9389
5000 performance	1-5	3	Integrated power converter + thermal printer + legal-for-trade certificate	165TA9385	165TA9390

* 1-2 kg => 0-1000 kg: per kg, > 1000 kg: per 2 kg
2-5 kg => 0-2000 kg: per 2 kg, > 2000 kg: per 5 kg

Weighing forks with lithium battery



These type of weighing forks have the same characteristics as the normal weighing forks but they have one extra benefit: these weighing forks are equipped with a lithium battery. These batteries have a longer lifespan than normal batteries.

Technical specifications

- › Capacity: 2500 kg
- › Fork length: 1150 mm
- › Width of the forks: 135 mm
- › Thickness of the forks: 45 mm
- › Weight of one fork: 65 kg
- › Ground clearance FEM 2A: 76 mm
- › Ground clearance FEM 2B: 152 mm

Type	Weight graduation*	ISO 2328	Extra	REF Fork drop A	REF Fork drop B
	kg				
2500 performance	1-2	2	ISO calibration certificate	165TA9391	165TA9395
2500 performance	1-2	2	Integrated power converter + ISO calibration certificate	165TA9392	165TA9396
2500 performance	1-2	2	Integrated power converter + thermal printer + ISO calibration certificate	165TA9393	165TA9397
2500 performance	1-2	2	Integrated power converter + Bluetooth output for communication with PDA + ISO calibration certificate	165TA9394	165TA9398

* 1-2 kg => 0-1000 kg: per kg, > 1000 kg: per 2 kg
2-5 kg => 0-2000 kg: per 2 kg, > 2000 kg: per 5 kg

Product movie

Weighing forks allow you to weigh your goods as you lift them. By using the weighing forks, you can save up to 1,5 minutes per weighing. The weighing system is completely wireless, so you can easily install the forks within 5 minutes.



Features

- › Better protected battery pack
- › Lithium battery has a longer lifespan than normal batteries





When using a lift truck, transporting goods and loading vehicles, weight is a crucial element. Too much weight on the forks can result in damage to the machine. Weighing devices increase loading and transporting efficiencies and reduce costs of cargo loading and shipment. They work with a visual and/or acoustic signal to warn you of overload.

We can offer you systems with an accuracy ranging from 2% up to 0,5%. These modern systems are easy to set and use. So what are you waiting for? Turn your equipment to a mobile weighing scale!

2.3. WEIGHING DEVICES

Liftlog 100+



The Liftlog 100+ is a cost-effective weighing and load-monitoring instrument specifically designed for forklift trucks that displays the weight and calculates loading totals. It also features visual and audible overload warning signals.

Features

- > Accuracy +/- 2%
- > 12-24 V
- > LCD indicates 'calculated' weight with a bar graph of the load status
- > Total channel displays sum of all entered load weights
- > Initial audible alarm at 90% of permitted load with continuous audible alarm and flashing display at and in excess of 100%
- > Overload logging capability
- > Quick and easy installation and unique bracket enables installation of the instrument in any position
- > Proven technology in a robust waterproof enclosure sealed to IP67
- > Head unit, bracket and mounting set
- > Junction box assembly
- > Pressure sensor and cable
- > Pressure hoses, hardware set and spanners

REF [163TA7856](#)

Liftlog 1000



A weighing system with 0,5% accuracy designed specifically for forklift trucks operating in the fastest loading environments. With the ever-increasing focus on productivity and safe loading, the new Liftlog 1000 is a cost-effective weighing instrument that reduces loading cycle times and maximises tonnes per hour performance.

Features

- > Accuracy +/- 0,5%
- > 12-24 V
- > Colour touchscreen display
- > Clear, uncluttered display provides intuitive operation
- > Store up to 50 tare values
- > Gross and nett indication
- > Correctly load vehicles or check stock
- > Predetermined pallet and stillage weights for faster operation
- > Head unit, bracket and mounting set
- > Junction box assembly
- > Pressure sensor and cable
- > Pressure hoses, hardware set and spanners
- > Reference sensor

REF [163TA7857](#)

Available on request



Optional printer
(see page 145)

REF [163TA8611](#)



Paper for ICP300 printer

REF [165TA9399](#)

Liftalert



The Liftalert is a cost-effective instrument that increases forklift safety. It features a visual and audible alarm that activates upon approach and reaching of the overload volume.

Features

- › LCD indicates % readout and bar graph of load status
- › Accuracy +/- 2% of truck capacity
- › Initial audible alarm at 90% of permitted load and continuous audible alarm and flashing display at 100% and over
- › Overload logging capability
- › Quick and easy installation
- › Proven technology in a robust waterproof enclosure sealed to IP67
- › Unique bracket enables installation of the instrument in any position
- › Head unit, bracket and mounting set
- › Junction box assembly
- › Pressure sensor and cable
- › Pressure hoses, hardware set and spanners

REF [163TA8610](#)

ICP 300 printer



The ICP 300 printer is the ideal printer for industrial and agricultural vehicles. As an optional item for the Liftlog 1000, this ultra-lightweight and low-power printer is designed for heavy-duty use in the harshest environments.

Features

- › Easy paper-feed mechanism, allowing for a quick replacement of the feeder roll
- › High-speed, high-resolution printing capability
- › High reliability line head mechanism
- › Robust, shockproof housing
- › 5 kB buffer ram allows simultaneous use of printer and instrument
- › Accepts ASCII format data

REF [163TA8611](#)

Available on request



Paper for ICP300 printer

REF [165TA9399](#)

Safeload



Weight and stability indicator for counterbalanced trucks that provides both a weight indication and stability information in a single combined display. It uses the weight, load centre position and mast tilt angle to calculate whether a load is lifted safely.

Features

- › Warning against tipping over or overloading of the forks
- › Provides weight, load position and stability indication
- › Sensitive to weight, load centre point and mast tilt angle
- › Can be installed on any lift truck (retrofit)
- › Buzzer and red LED backlight during overload
- › Data logger functionality
- › Standard equipped with: control unit, temperature-compensated pressure sensor and time determination sensors (2x)

Technical specifications

- › System tolerance weighing: 2% of system capacity
- › System tolerance load control: +/-5%
- › Display: LCD, dual colour backlight
- › Capacity: equal to lifting capacity of the truck
- › Graduation: 50 kg steps (for trucks with Q max 2500 kg)
- › Protection class: IP65
- › Wireless data transfer: Bluetooth for logged data
- › Also works in combination with forklift attachments

REF [165TA9400](#)

Safecheck



Safety device with a buzzer alarm that sounds whenever the load on the forks exceeds a preset limit, assisting the driver in avoiding potentially dangerous overload situations.

Features

- › Provides weight and overload warning
- › Maximum allowed weight entered via keypad
- › Buzzer alarm goes off during overload
- › Easy installation via T-coupling
- › Can be installed on any lift truck (retrofit)
- › Standard equipped with: control unit and oil pressure sensor

Technical specifications

- › System tolerance weighing: 4% of system capacity
- › Display: LCD, digit height 18 mm
- › Capacity: equal to lifting capacity of the truck
- › Graduation: 50 kg at 2500 kg capacity, 100 kg at 10000 kg capacity, 200 kg at 20000 kg capacity
- › Controls: 3 function keys, on/off button
- › Power supply: 12 V DC, from truck battery
- › Automatically switches on when the truck starts
- › Also works in combination with forklift attachments

REF [165TA8456](#)