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Turn your logistic expenses into profit generators using RAVAS material handling mobile weighing and dimensioning solutions. Integrated in forklifts, electric warehouse trucks, stackers and hand pallet trucks, enhance your production and logistic processes by generating real-time data on material flows, including data communication to TMS, WMS or ERP business systems.

It's about those few seconds faster, that extra bit of insight in data and that significant number of less errors. That's the RAVAS promise: creating intelligence for all industries and applications. RAVAS systems are suitable for all OEM brands and models.

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RAVAS is a worldwide leader in the mobile weighing systems industry. With a global sales and service network and an office and manufacturing facility in the United States, we can provide mobile weighing products globally.

Headquartered in the Netherlands, RAVAS believes in changing the weighing process in the material handling industry. We market our products under our brand name and allow distributors to use their own.

9 sales offices and representatives worldwide

40,000 mobile weighing systems per year

Worldwide sales and service network

Technology compatible with all OEM brands

In-house professionals in sales, service, R&D and production



Creating Intelligence

Watch the video

A dependable return on investment

Achieve more efficiency

RAVAS mobile scales allow you to transport and weigh at the same time. You immediately know the weight of every pallet lifted. It's no longer necessary to drive back and forth to a fixed floor scale with every pallet or container. So you save time and manpower and you improve the efficiency of your internal logistics.

When every second counts

Let's say you're weighing an average of 4 pallets every hour. By using a truck that you already use to handle the pallets, you're able to save 1.5 minutes per pallet. That adds up to a daily savings of 48 minutes, or 200 man hours per year. If, for example, an operator costs you 50 euros, you could save 10,000 euros annually.

Lift, capture, scan and share in less than a minute

A traditional industrial weighing process includes multiple steps and costs lift truck and pallet truck operators valuable time. With RAVAS mobile weighing solutions, operators can lift, capture the weight of a load, scan the shipment for logistics information, and wirelessly share the data — all in less than a minute.

OIML certification possible (Legal for Trade)

When a product is sold by weight, a RAVAS mobile weighing system with OIML certification (Legal for Trade) is indispensable. Perfect for logistics and warehousing environments such as the material handling, food services waste management and pharmaceuticals industries.



Mobile weighing versus static weighing

Watch the video



Forklift Truck Scales



iCP - Intelligent Carriage Plate

Turn your logistic cost centers into profit generators

With the iCP, lifting, weighing, counting, accumulating, and transporting are accomplished as a single efficient operation. This streamlines workflows by eliminating the time-consuming task of taking shipments to remote platform scales.



Characteristics & Benefits

- Combines with other attachments such as clamps and fork positioners
- Attaches to FEM II, FEM III & FEM IV carriages
- Easy to install
- Highly accurate and sustainable
- ► All indicators are resistant to splash water & dust
- Wireless technology available
- No modification of the forklift needed
- Lift, weigh, count, summing, and transport all in one operation
- Well suited to warehouse logistic environments

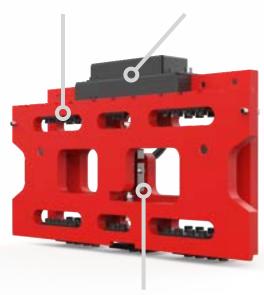
iCP - Intelligent Carriage Plate

FLEXURES

Manufactured with high quality spring steel, RAVAS flexures are field-replaceable, reducing maintenance expense and downtime.

REDBOX TECHNOLOGY

Legal for Trade application, the RedBox technology delivers weight and angle measurements to digital indicators.



LOAD CELL

Ruggedized, field replaceable load cell provides reliable performance in challenging operating conditions.

TECHNICAL SPECIFICATIONS

	FEM II	FEM III	FEM IV
Capacity	2,500 kg	5,000 kg	7,000 kg
Graduation	2 kg at 2,500 kg capacity	5 kg at 5,000 kg capacity	10 kg at 7,000 kg capacity
System tolerance	0.2% of the load lifted	0.2% of the load lifted	0.2% of the load lifted
Protection class	IP65	IP65	IP65
Dimensions W x H x D in mm	915 x 407 x 121 159 kg	1065 x 508 x 133 259 kg	1220 x 635 x 165 522 kg
Options	OIML certified (Legal for Trade), WiFi data communication to ERP/WMS, cabled or wireless, explosion proof ATEX certified		



iForks - Intelligent Forks

iForks-32

With only 58 mm fork height and no external components on the fork shank, iForks-32 is similar to standard lift truck forks. Easy fit for fork positioners. Also available with extra thin forks.



iForks-52

The iForks-52 offers the intuitive 5200 touch screen indicator combined with all the functionalities and advantages of the iForks-32, with a piece counting function as a plus.



RWV-C

RWV-C cabled iForks, require
a fixed installation on the
forklift truck. Cabling is
installed between the forks
and the indicator in the cabin.
Power supply is taken from
the truck battery.



iForks - Intelligent Forks

Increase warehouse productivity with intelligent forks

Want to make your forklifts even more versatile than they already are? This can be done very easily via a wide range of RAVAS iForks. They can be quickly mounted on any forklift and ensure that there is no longer any limit to the efficiency of your logistics processes.



Characteristics & Benefits

- ▶ Reduce your internal logistic process by 30%
- ► Easy integration with your WMS/ERP business system
- ▶ Reduce errors in your logistics process
- ▶ Installs in 5-10 minutes
- ▶ Tested at 125% capacity for 1 million cycles
- ▶ Reinforced heel which improves durability
- ► Collect data in the RAVAS WeightsApp
- ▶ Compatible with any OEM forklift brand

iForks - Intelligent Forks

TECHNICAL SPECIFICATIONS	iForks-32	iForks-52	RWV-C
Capacity	FEM2: 2,500 kg FEM3: 3,000 kg FEM3: 5,000 kg	FEM2: 2,500 kg FEM3: 3,000 kg FEM3: 5,000 kg	FEM2: 2,500 kg FEM3: 3,000 kg FEM3: 5,000 kg
Graduation	1-2 kg at 2,500 kg 1-2 kg at 3,000 kg 2-5 kg at 5,000 kg	1-2 kg at 2,500 kg 1-2 kg at 3,000 kg 2-5 kg at 5,000 kg	1-2 kg at 2,500 kg 1-2 kg at 3,000 kg 2-5 kg at 5,000 kg
System tolerance	0.1% of the load lifted	0.1% of the load lifted	0.1% of the load lifted
Display	Dual color (green/red), digit height 20mm, with backlight, 5 digits	Full-colour 5" touch display with 25 mm high digits	Depends on indicator
Signal transfer	Bluetooth 4.0	Bluetooth 4.0	Depends on indicator
Protection class	IP65	IP65	IP65
Legal for Trade	Optional	Optional	Optional
Data integration	Optional	Optional	Optional

Hydraulic Scales

RCS Hy-Q-52

The RAVAS RCS Hy-Q-52 is RAVAS' latest hydraulic scale, with the 5200 touch screen indicator. Highly intuitive and standard equipped with Bluetooth.

RCS

The RAVAS RCS is a hydraulic scale. For simple check weighing, where a high accuracy is not required, the RCS hydraulic load indication system is a suitable solution.





RCS Hy-Q-52 - Hydraulic Scale

Turn your logistical cost centers into profit generators

Looking for a robust, convenient and cost-effective solution that increases efficiency in your warehouse? The RAVAS hydraulic weighing systems are extremely suitable for simple weight checks of pallets and goods. They also avoid overloading your trucks, warehouse racks and the forklift itself.

- ▶ High accuracy hydraulic scale
- ▶ Easy calibration due to optimal calibration menu
- Overload indication in the display
- ▶ No manifold block: easy and cost efficient installation
- ▶ For use in combination with rotators and/or clamps
- ▶ Less sensitive to changes to load center point
- Suitable for rough applications





TECHNICAL SPECIFICATIONS

Capacity	Up to 99,000 kg	
Graduation	2 kg at 2,500 kg 5 kg at 5,000 kg 10 kg at 10,000 kg 20 kg at 25,000 kg 50 kg at 50,000 kg 100 kg at 99,000 kg	
System tolerance	+/- 0.2% of the scale capacity	
Protection class	IP65	
Power supply	9Vdc - 100Vdc input, built-in regulator / convertor board	
Dimensions indicator	L x B x H = 85 x 165 x 115 mm	
Options	Printer, 2 additional COM-ports for RS232, Bluetooth 2.0 and/or WiFi connection, 1D USB bar-code scanner, data integration software	



RCS - Hydraulic Scale

Easy and cost efficient

Our weighing systems can be mounted on all forklift trucks, regardless of brand or model. The RAVAS RCS is highly recommended, because it is a universal weighing system. You can use it for checking incoming goods or avoiding overload. The system is also suitable for use in combination with rotators and/or clamps. Above all, it is an easy, cost-effective and robust solution.

- Attractively priced forklift measuring system
- Easy installation via T-coupling
- Indicator with 4 AA-batteries
- Suitable for rough applications
- For shipping weights and avoiding overloads



TECHNICAL SPECIFICATIONS

Capacity	To fit the capacity of the truck (2,500, 5,000 or 10,000 kg)	
Graduation	10 kg at 2,500 kg capacity 20 kg at 5,000 kg capacity 50 kg at 10,000 kg capacity Higher capacity up to 99 tons on demand	
System tolerance	2% of system capacity	
Protection class	IP65	
Power supply	6Vdc from 4 AA-batteries	
Battery life	6 months, with average use	
Options	12V power supply from truck battery, converter 80/48/36/ 24Vdc - 12Vdc, thermal or matrix printer in separate housing (only on 12V version, prints weights above 200 kg)	





Electric Pallet Truck Scales



Customer story: Raben Group Poland



Order picking with double scales

Raben Group in Poland is a company dedicated to comprehensive logistic services in Europe. In order to provide even better customer service, the company implemented the RAVAS Pick by Weight solution in order to reduce picking errors and thus complaint costs, and to optimize inventory control, which reduces the inventory time.

"Compared to the situation before the implementation, our pickers no longer have to count the goods. This saves us time and improves picking efficiency. In addition, we omitted the final inspection of our process. We are satisfied with the quality of the mobile weighing systems and the RAVAS Pick by Weight solution in general", summarizes Łukasz Elminowski-Wenda.



Read the story & watch the video

Overview Electric Pallet Truck Scales

Ergo Truck Weighing electric pallet truck

Weighing hand pallet trucks are excellent for moving goods horizontally. However, if you have to deal with weights over 750 kilograms or if you move pallet goods over large distances, this requires a more suitable solution. In this case, an electric weighing pallet truck is a better solution for you.



RPW EL

Scale for warehouse trucks

The RAVAS RPW EL mobile weighing system can be built into all makes and models of warehouse and order pick trucks. Whether you are about to purchase one or more new trucks or you already own a fleet of trucks, our mobile weighing solutions are available for both retrofit and factory fit.



RPW ST

Scale for stacker trucks

Thanks to the RAVAS RPW ST, logistics and industrial companies that strive for more efficiency can also equip their stackers with a mobile weighing system. A major advantage of the solution is that all stackers can be equipped with a mobile weighing system, both retrofit and factory fit.



Ergo Truck

Work and weigh ergonomically with the RAVAS Ergo Truck

Work smarter, not harder. The Ergo Truck is a weighing electric pallet truck designed to move, weigh and lift loads up to 1,500 kg. The Ergo Truck combines RAVAS' innovative and efficient weighing scales with a lithiumion battery and Bluetooth technology to provide operators with the most efficient electric pallet truck on the market. Thanks to the electric drive and lift it's the ideal choice for any warehouse and for replacing your hand pallet truck or floor scale.



Characteristics & Benefits

- ▶ Lift up to 1,500 kg
- Capture weight and share data wirelessly
- ▶ Built-in scale and Wifi-enabled onboard indicator
- ▶ Powered by rechargeable Lithium-Ion battery
- ▶ Effortlessly lift and drive with handle controls
- Ergonomic design improves productivity and safety
- Easily navigate tight corners
- Optionally with Legal for Trade certification

Watch the video

Ergo Truck

Standard truck specifications

- Li-ion battery 24V/20Ah, incl. separate charger
- Autonomy battery up to 3 hours working at one charge
- Extended autonomy by battery pack exchange system
- Driving PU wheel 210 x 70 mm
- ▶ Dual loading PU wheels 80 x 60 mm
- Driving motor 0,75 kW
- Lifting motor 0,70 kW
- ► Lifting speed 0,017-0,02 m/s
- ► Travel speed 4,5-5 km/h



TECHNICAL SPECIFICATIONS

Capacity	1,500 kg	
Graduation	Multirange 0,5 kg till 500 kg 1 kg till 1,500 kg	
System tolerance	0,1% of applied load	
Display	LCD dual color, digit height 20 mm, backlight	
Protection class	IP65	
Power consumption	12V - 34mA	
Power supply	Via truck battery including power convertor/regulator	
Dimensions indicator	60 x 77 x 182 mm	
Legal for Trade	Optional	
Data transfer	Optional	
Options	RAM indicator mounting support, printer, additional battery pack for extended autonomy	



RPW EL

A perfect weighing system for electric pallet trucks and orderpicktrucks

Experience precision and efficiency with RPW EL. Our customizable checkweighing solution ensures error prevention and optimized order picking. Choose the Legal for Trade version for invoicing based on weight. Need a system for EX zones or food environments? RPW EL offers explosion-proof and stainless steel options.



Characteristics & Benefits

- ► Fits all trucks
- Only 5 mm increase in fork height
- Weight transfer to truck terminal (optional)
- Data transfer (optional to WMS or ERP systems)
- For check weighing and preventing errors in order picking



Watch the video about the RPW EL in action at Van Rooijen Logistics

RPW EL

Modification of the truck

Most electric pallet trucks and order picking trucks can be equipped with the RPW EL scale. The fork construction of the truck is mechanically modified, in order to mount the scale components with only 5 mm of added fork height. A scale indicator of your choice shows the weight on the forks and communicates with a truck terminal or warehouse management system if desired.



TECHNICAL SPECIFICATIONS

Capacity	Same as lifting capacity of the truck
Graduation	Multirange 0,5/1 kg till 500/Q-max
Scale tolerance	0.1% of the load lifted
Power supply	From truck battery
Protection class	Load cells IP67 Indicator IP65
Indicator functions	Functions of 3200, 5200, 2100 (Exi) or Touch weight indicator
Legal for Trade	Optional
Data integration	Optional
ATEX certified	Optional
Stainless steel	Optional



More efficiency by equipping your stacker with a weighing system

All brands of stackers can be equipped with the RAVAS RPW ST weighing system. Perfect for quality control during drum filling, for mixing ingredients from containers or for simple weight control in the warehouse or production.



Characteristics & Benefits

- Only 5 mm increase in fork height
- Weight transfer to truck terminal
- Data transfer to WMS or ERP
- For dosing and parts counting
- Wireless version available and easy to install on trucks with triple mast



Read more about the RPW ST

RPW ST

Modification of the truck

To make the stacker weigh, the fork construction of the truck is mechanically modified so that scale components can be mounted with only 5 mm extra fork height. Due to the minimal height difference, your operators will not experience any disadvantages in practice from the newly placed weighing fork construction.

Via a weighing indicator connected to the forks, the weight of every load is available in real time on the display of the indicator and, if desired, is communicated with a truck terminal or warehouse management system.

TECHNICAL SPECIFICATIONS

Capacity	Same as lifting capacity of the truck
Graduation	Multirange 0,5/1 kg till 500/Q-max
Scale tolerance	0.1% of the load lifted
Power supply	From truck battery
Protection class	Load cells IP67 Indicator IP65
Indicator functions	Functions of 3200, 5200, 2100 (Exi) or Touch weight indicator
Legal for Trade	Optional
Data integration	Optional
ATEX certified	Optional
Stainless steel	Optional





Hand Pallet Truck Scales



Which model fits your needs?

Due to the wide variety of applications, unique specifications, and requirements, it can sometimes be quite challenging to determine the best weighing hand pallet truck for your operations. Know that at RAVAS, we always have a solution that perfectly fits your specific situation.

Do you know the weights and the transport distance for which you want to use the pallet truck?

A manual weighing hand pallet truck is an excellent transport tool for moving palletized goods horizontally over a short distance. However, do you regularly deal with weights greater than 750 kilograms or move the pallet goods over long distances? In this case, an electric weighing pallet truck, our Ergo Truck, is a better solution for you.

Do you use the weighing pallet truck for high-accuracy weighing tasks?

At RAVAS, we have different types of weighing hand pallet trucks available. Multiple models and weighing functionalities have been developed for companies looking for a solution to their high-accuracy mobile weighing tasks. Perfect for fine mixing, dosing, and batching applications.

Are you performing work in a special environment?

RAVAS offers a range of ATEX-certified models for use in hazardous environments. For work in the food and pharmaceutical industries, we offer a range of 100% stainless steel weighing hand pallet trucks for minimum maintenance and maximum hygiene.

Are you using an ERP or Warehouse Management System?

RAVAS solutions provide valuable data on material flows and make this data available to software platforms through data communication with connected trucks. Depending on your needs around data processing and data management, several options are available.

Do you invoice customers based on weight?

To invoice your customer by weight, you need to use an OIML verified Legal for Trade system. This is available for many of our mobile weighing systems.



Overview Hand Pallet Truck Scales



RAVAS-1100

Solid hand pallet truck to generate mobile weighing data. Suitable for weight checks at goods' reception or when filling out transport documents. With basic weighing functionalities.



RAVAS-3200

Advanced hand pallet truck, standard equipped with extended scale functionality and Li-ion battery pack.
Optionally available with Legal for Trade approval for commercial weighing.



RAVAS-5200

High-tech weighing hand pallet truck, equipped with advanced scale functionality and connectivity. Powered by a Li-ion rechargeable battery pack. Suitable for piece counting.



RAVAS-1100, RAVAS-3200, RAVAS-5200

TECHNICAL SPECIFICATIONS	RAVAS-1100	RAVAS-3200	RAVAS-5200
Capacity	2,000 kg	2,000 kg (2,500 kg or 3,000 kg optional)	2,000 kg (2,500 kg or 3,000 kg optional)
Graduation	1 kg	0 - 200 kg: 0,2 kg 200 - 500 kg: 0,5 kg 500 - 2,000 kg: 1 kg	0 - 200 kg: 0,2 kg 200 - 500 kg: 0,5 kg 500 - 2,000 kg: 1 kg
System tolerance	0.1% of the load lifted	0.1% of the load lifted	0.1% of the load lifted
Display	LCD, digit height 18 mm	LCD dual color, digit height 20 mm, backlight	Full-colour 5" touch display with 25 mm high digits
Power supply	4 x 1.5V AA-batteries	14,8Vdc/5Ah, exchangeable; Li-ion battery pack charger included	Li-ion battery pack 14.8V / 5Ah incl. charger
Battery life	When used 5 times a day, the batteries last for a year	75 hours, low battery indication in display	25 hours continuous use (50 hours with sleep mode)
Protection class	Load cells IP67, indicator IP65	Load cells IP67, indicator IP65	Load cells IP67, indicator IP65
Legal for Trade	-	Optional	Optional
Data integration	-	Optional	Optional
Piece counting	-	-	Standard

ProLine-5200

The RAVAS ProLine-5200 with Li-ion rechargeable battery pack allows you to measure with increments of 100 gram. Therefore, this hand pallet truck is one of the best solutions for fine dosing, warehousing and batching applications.

ProLine-6200

The ProLine-6200 is a hand pallet truck scale with an alphanumerical keypad and programmable scale functions. For counting parts, mixing and dosing according to recipes, and for data transfer to a PC or wireless network.

ProLine Touch

The RAVAS ProLine Touch is the first weighing hand pallet truck equipped with a touch screen indicator. It weighs loads in increments of 100 gram. Perfect for use in the food, pharma and chemical industries, and parts supply chains.

RAVAS Touch GMP

The RAVAS-Touch GMP is a stainless steel hand pallet truck scale, completely designed for use in the food and pharma industries. This highly accurate fully stainless steel hand pallet truck scale is built according to GMP norms.









ProLine-5200, ProLine-6200, ProLine Touch, RAVAS Touch GMP

TECHNICAL SPECIFICATIONS	ProLine-5200	ProLine-6200	ProLine Touch	RAVAS Touch GMP
Capacity	2,000 kg	2,000 kg (2,500 kg or 3,000 kg optional)	2,000 kg (2,500 kg or 3,000 kg optional)	2,000 kg
Graduation	0 - 200 kg: 0,1 kg 200 - 400 kg: 0,2 kg 400 - 2,000 kg: 0,5 kg	0 - 200 kg: 0,1 kg 200 - 400 kg: 0,2 kg 400 - 2,000 kg: 0,5 kg	0 - 200 kg: 0,1 kg 200 - 400 kg: 0,2 kg 400 - 2,000 kg: 0,5 kg	0 - 200 kg: 0,1 kg 200 - 400 kg: 0,2 kg 400 - 2,000 kg: 0,5 kg
System tolerance	0.08% of the load lifted			
Display	Full-colour 5" touch display with 25 mm high digits	TFT, 5" colour	18 cm / 7.1, high resolution touch screen	18 cm / 7.1, high resolution touch screen
Power supply	Li-ion battery pack 14.8V / 5Ah	14,8Vdc / 5Ah, exchangeable Li-ion battery pack	12V, by 4 exchangeable battery modules 6V-4,8Ah	12V, by 4 exchangeable battery modules 6V-4,8Ah
Battery life	25 hours continuous use (50 hours with sleep mode)	25 hours (depending on work and environmental conditions)	12 hours, charging time 6 hours	12 hours, charging time 6 hours
Protection class	Load cells IP67, indicator IP65	Load cells IP67, indicator IP69	Load cells IP67, indicator IP65	Load cells IP67, indicator IP65
Legal for Trade	Optional	Optional	Optional	Optional
Data integration	Optional	-	-	Optional
Piece counting	Standard	Standard	-	Optional

RAVAS-2100 EXi

The RAVAS-2100 EXi is an explosion proof weighing hand pallet truck. ATEX certified and standard equipped with stainless steel fork shoes. Suitable for industrial applications like filling, mixing and dosing.



ProLine-2100 EXi

The ProLine-2100 EXi is an explosion proof weighing hand pallet truck for high accuracy weighing. ATEX certified and standard equipped with stainless steel fork shoes. Experience excellence in hazardous surroundings.



RAVAS-2100 EXi, ProLine-2100 EXi

TECHNICAL SPECIFICATIONS	RAVAS-2100 EXi	ProLine-2100 EXi
Capacity	2,000 kg	2,000 kg
Graduation	0 - 200 kg: 0,2 kg 200 - 500 kg: 0,5 kg 500 - 2,000 kg: 1 kg	0 - 200 kg: 0,1 kg 200 - 400 kg: 0,2 kg 400 - 2,000 kg: 0,5 kg
System tolerance	0.1% of the load lifted	0.08% of the load lifted
Display	LCD, digit height 18 mm Pivoting, LCD, digit height 18 m	
Power supply	Intrinsically safe, approval number DEKRA 13ATEX O043, 8Vdc/3.5 Ah, rechargeable, exchangeable, maintenance free Intrinsically safe, approval num 0043, 8Vdc/3.5 Ah, recharge maintenance free maintenance	
Battery life	100 hours, low battery indication 100 hours, low battery indication 5 automatic switch-off	
Protection class	Load cells IP67, indicator IP65	Load cells IP67, indicator IP65
Legal for Trade	Optional	Optional
Full stainless steel	Optional	Optional
Data integration	-	Optional



Ergo Scissor Lift

Work and weigh at ergonomic height

The RAVAS Scissor Lift truck with built-in scale enables you to work and weigh at an ergonomic height.

Multi purpose

The Ergo Scissor Lift can be used as a hand pallet truck, a lifting table or a workbench. Guaranteed ergonomic lifting height.

Manual or electric

The Ergo Scissor Lift is available with a manual or an electrical lift, enabling you to improve the ergonomics even more.



TECHNICAL SPECIFICATIONS

Capacity	1,000 kg
Graduation	0.5 kg till 500 kg 1 kg at 500 till max 1,000 kg
Scale tolerance	0.1% of the applied load
Power supply	Electric: via truck battery Manual: via (exchangeable) Li-ion battery pack
Protection class	IP65
Legal for Trade	Optional
Data integration	Optional
Scale functions	Available with indicator types 3200 and 5200
Piece counting	Optional with indicator 5200



