



RAVAS
creating intelligence



RAVAS designs and manufactures mobile weighing products that can be customized to suit logistics warehouses and production applications. With innovative carriage plate scales, electric pallet jack scales, hand pallet jack scales, and forklift scales, RAVAS will turn your cost centers into profit generators.

Table of Contents

- 01 RAVAS in the World
- 02 Why Mobile Weighing
- 03 Forklift Scales
- 04 Electric Pallet jack Scales
- 05 Hand Pallet Jack Scales
- 06 Data Processing & Technology

RAVAS IN THE WORLD

RAVAS is the leading mobile weighing systems manufacturer worldwide. With a European market share of 65% and a growing United States Market share, RAVAS ensures the highest quality and manufacturing standards.

Headquartered in the Netherlands, RAVAS believes in changing how the material handling industry weighs products. We not only market our products under our brand name but also allow distributors to use their own.



8 Headquarters Across the World



Over 250 Global Employees



Over 34,000 Scales Sold Annually



Global Sales & Service Network



Professionals in Sales, Service, R&D and Production



Technology and Scales Compatible with all OEM Brands

WHY MOBILE WEIGHING SYSTEMS?

Saving Time, Space & Money

Full “Return on Investment”

Suppose you move 300,000 packages a day. How much money would you save if you retained 1 second of your trip with mobile weighing?

- *24 hour cycle = 300 seconds*
- *300 Seconds = 83 Labor Hours per Day*

Using a RAVAS Weighing System:

- *Save 1.5 Minutes Per Pallet = 48 minutes a day or 200 hours per year.*
- *If the average operator costs you \$20 per hour, you can save roughly \$605,900.*

The investment has earned itself back within 3 months.

Can you imagine how much you would save with 2,5, or 10 seconds?



RAVAS mobile weighing allows you to transport and weigh at the same time. You immediately know the weight of every pallet lifted.

No longer will it be necessary to drive back and forth to a fixed floor scale with every pallet or container.

NTEP Certified (Legal for Trade)

Almost all RAVAS mobile weighing systems have NTEP certification (Legal for Trade) to invoice customers commercially by weight. From retail to freight logistics & warehousing, suitable for all types of logistics.

See the difference between traditional floor scales weighing and mobile weighing in just 1 minute. Watch the video below.

Watch the video
Scan QR code!



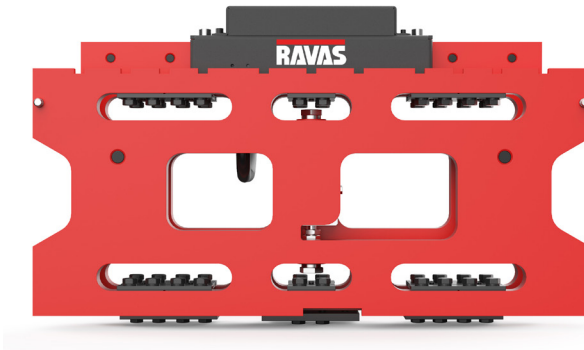
RAVAS



FORKLIFT SCALES










iCP (Intelligent Carriage Plate)

Turn your Logistical Costs into Profit Generators



The iCP is NTEP (Legal for Trade) approved for commercial weighing & suitable for use with clamps, side shifters, rotators & more. The iCP is the most accurate heavy-duty carriage plate scale on the market.

Characteristics & Benefits

-  Can Combine with Other Attachments such as Clamps, Fork Positioners, Etc.
-  Attaches to Class II, III, & IV ITA Carriages
-  Easy to Install
-  Extremely Accurate & Durable
-  All Indicators are Resistant to Water & Dust
-  Wireless Technology Available
-  Zero Modification to the Forklift
-  Lift, Weigh, Count, Accumulate, & Transport all in one Operation
-  Best Suited for Heavy-Duty Logistical Environments

Why Invest in the iCP?

The iCP helps turn logistical expenses into profit generators with its heavy-duty weighing capabilities. Designed to weigh, lift, and move products safely, accurately, and efficiently, the iCP continues to be the most innovative scale on the market.

Durability

The multiple flexures absorb the constant shock of load bearing while transferring the weight to the load cells. These critical elements have no moving parts, reducing the potential for failure.

Optimized with Different Attachments

The iCP attaches to most types of forklift carriages and requires no modification to the forklift because it doesn't connect to the hydraulic system. Eliminate wasted time by lifting, weighing, counting, accumulating, and transporting goods in a single efficient operation.

Accuracy

With a single tension load cell with 0.1% accuracy, the unique design provides superior load-sample linearity and maintains both heel-to-toe and fork-to-fork accuracy.

Safety

Two rugged Grade-8 steel bolts secure the scale base for service or in case of unintentional abuse, thereby preventing damage to the load cell. These safety bolts secure the load even if the scale is damaged by overloading. The load cell rating has been selected to withstand an overload of 300% without damaging the cell.



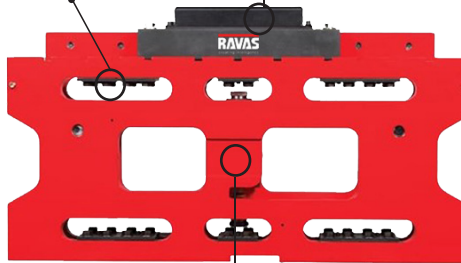
FEATURES

FLEXURES

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

CLINOMITE TECHNOLOGY

Legal for trade application, the Clinomite technology delivers weight and angle measurements to digital indicators



LOAD CELL

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

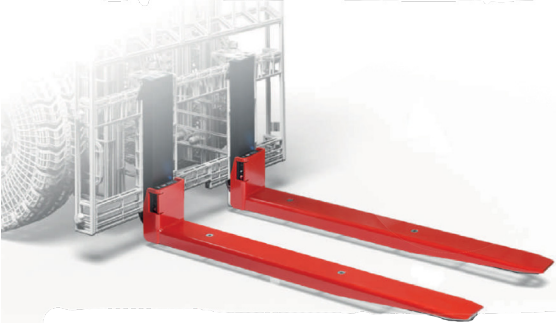
TECHNICAL SPECIFICATIONS

	CLASS II	CLASS III	CLASS IV
Models	ICP2-0000-0 ICP2-N000-0 ICP2-000W-0 ICP2-N00W-0	ICP3-0000-0 ICP3-N000-0 ICP3-000W-0 ICP3-N00W-0	ICP3-0000-CL ICP3-N000-CL ICP3-000W-CL ICP3-N00W-CL
Front Plate Dimensions	16" H x 36" W	20" H x 42" W 20" H x 48" W	25" H x 48" W
Back Plate Dimensions	31" W	36" W 42" W	42" W
Non-NTEP Max. Capacity	6,000 lbs.	15,000 lbs.	20,000 lbs.
NTEP Capacity	5,000 lbs.	10,000 lbs.	12,000 lbs.











iFORKS

Increase Warehouse Productivity with High Tecdhnology Forks



Why iForks are the Best Option?

-  Reduce Your Internal Logistics by 30%
-  Integration with your WMS/ERP Business System
-  Reduce Errors in your Supply Chain & Internal Logistics
-  Installs in 5-10 Minutes & is Easily Removable
-  Tested at 125% Capacity for 1 Million Cycles
-  Forks are 2.3 Inches High Without External Components Needed to Anchor to the Machine
-  The Reinforced Heel Makes it a Very Durable Product
-  Collect Data in the RAVAS WeightsApp
-  Compatible with any OEM Forklift Brand

Customer Testimonials:

"We use RAVAS iForks for order preparation, which has meant optimizing our supply chain and avoiding picking errors. As a result, incorrect outbound orders are greatly reduced, and accurate data is made available to the WMS in real-time, quickly and efficiently."

Kuehne + Nagel

"We installed RAVAS iForks for our electric forklifts and pallet jacks, including RAVAS indicator technology to present the weight of the pallet on a device in the form of a QR code. That way, we could import the pallet's weight into our TWMS data set without changing our hardware or software."

Expeditors

iFORKS

Available Models



iForks-32

With only 2.28 in. of fork height and no external components on the fork shank, iForks-32 is similar to standard forklift forks. Easy fit for fork positioners.






iForks-52

Offers the intuitive 520 indicator touch screen combined with all the weighing functionality and Wi-Fi connectivity.



iForks-XT

The perfect solution for low or damaged pallets.

Models	 iForks-32	 iForks-52	 iForks-XT
Tolerance	0.1%	0.1%	0.1%
Graduation	0-2,000 lbs. - 2 lbs. 2,000-5,000 lbs. - 5 lbs.	0-2,000 lbs. - 2 lbs. 2,000-5,000 lbs. - 5 lbs.	0-2,000 lbs. - 1 lbs. 2,000-5,000 lbs. - 4 lbs.
Weighing Capacity	5,000 lbs.	5,000 lbs.	5,500 lbs.
Battery Life	75 Hours continuous use	75 Hours continuous use	75 Hours continuous use
Fork Length	42 Inches	42 Inches	45 Inches
Fork Width	6.8 Inches	6.8 Inches	6.1 Inches
Fork Height	3 Inches	3 Inches	1.77 Inches
Protection Class	IP65/NEMA 4	IP65/NEMA 4	IP65
Connectivity	Bluetooth 4.0	Bluetooth 4.0 Standard / 2.0 Optional WiFi	Bluetooth 4.0 Standard / 2.0 Optional WiFi
Legal for Trade	Optional	Optional	Optional
Display	Dual color (Green/Red), Digit Height 0.78 inches, With Backlight, 5 Digits	Full-Color 5" Touch Display with 1" High Digits Digital	Dual color (Green/Red), Digit Height 0.78 inches, With Backlight, 5 Digits

iFORKS

Characteristics

- Bluetooth Technology and REal-Time Digital Transmission
- RAVAS WeightsApp Automatic and Manual Zero Correction
- Net and Gross Weighing
- Identification Code (5 Digits)
- Level Correction Integrated with the Forks
- Overload Warning to Q-Max / Overturning or Load incorrectly Positioned on the forks

Benefits

- 2.28 Inch Thick Forks, Easy Entry into Pallets: For Low Height Pallet, Extra-Thin Forks with 1.77 Inch Height are Available - iForks XT
- Automatic Tilt Compensation Mast Angle
- Installed in 5-10 Minutes
- Digital Calibration
- Li-Ion Batteries in the Forks
- Advanced Display for the Operator
- Compatible with the RAVAS WeightsApp



Hydraulic Scales

Weighing Scales for Forklifts



RCS HyQ-52



Simple installation with a T-shaped coupling with a tolerance of 2%



4 AA Batteries



Weight Capacity:
5,000 lbs. to 200,000 lbs.



IP65/NEMA 4



Graduation:

5 lbs. at 5,000 capacity
10 lbs. at 10,000 capacity
20 lbs. at 20,000 capacity
50 lbs. at 50,000 capacity
100 lbs. at 100,000 capacity
200 lbs. at 200,000 capacity



Controls:

3 Activation buttons
On/Off button



Get Data Faster

Each unloaded incoming pallet is weighed simultaneously and presented as a QR code on the zebra display. The operator scans the ID, opens the dataset on the pallet, and uses the RAVAS WeightsApp to transfer it to a business system. Once the data set is complete, weight processing is added without any impact on the cross-dock operation



ELECTRIC PALLET JACK SCALES

iJACK

When Money Equals Time, Every Second Counts



When your job is to move, weigh, and track materials as they travel through the warehouse, every second counts. Eliminating steps in your handling process can improve operational efficiencies that will add up to higher profits

Characteristics & Benefits



Lift Up to 4,000 lbs.



Capture Weight & Share Data Wirelessly
Easy to Install



Built-in Scale & Wifi-enabled onboard indicator



Powered by Rechargeable Lithium-Ion Battery



Effortlessly Lift & Drive with Handle Controls



Ergonomic Design Improves Productivity & Safety



Easily Navigate Tight Corners



NTEP (Legal for Trade) Certified

Why Invest in the iJACK?

The iJack, a mobile electric pallet jack scale, lifts, weighs, stores, and shares data in seconds. The iJack delivers results you can count on by eliminating redundancies and ensuring accuracy.

Innovation

Outfitted with a RAVAS scale and indicator, the iJack is smarter, faster, and stronger than competitive electric pallet jacks. With a built-in scale and WiFi-enabled onboard indicator, the iJack is the next generation of electric pallet jacks designed to increase the speed of your operation.

Capacity

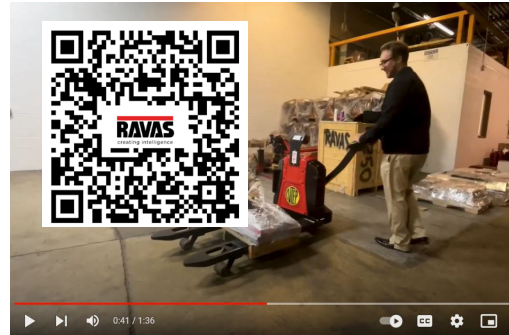
Manufactured to withstand the daily grind of a warehouse environment, the iJack is available in 2600 and 4000 lifting capacities. The battery-powered high-torque drive motor operates smoothly so that you can navigate tight corners while keeping pace with shopping demands.

Efficiency

The up/down, stop/start process of weighing with a floor scale is simplified with the RAVAS iJack. Now, you can lift a pallet, capture the weight of the load, and share the data wirelessly in real-time. Plus, the iJack's ergonomic design allows for safe and easy operation, limiting downtime.

Accuracy

Accurate shipping weights are essential to proper invoicing and driving revenue. RAVAS scales outperform the industry standard for accuracy. The iJack's onboard scale is NTEP (legal for trade) certified so that you can manage your legal for trade requirements with assurance.



The RAVAS iJack

Weighing Electric Pallet Jack Scale



Capture Weight



Communicate Wirelessly



Save Time



Lift Up to 4,500 lbs.

RAVAS

iJACK

Available Models



iJack-26

Work smarter, not harder. The iJack-26 is an electric pallet jack scale designed to move, weigh, and lift loads up to 2,600 lbs.



iJack-40

It's time to find a better way to get the job done. The revolutionary iJack-40 is the largest mobile weighing electric pallet jack scale on the market.

Weighing Capacity

2,600 lbs.

4,000 lbs.

Tires

Drive: 8.3" x 2.8" Polyurethane
Load: 2.4" x 3.1" Polyurethane

Drive: 8.3" x 2.8" Polyurethane
Load: 2.9" x 3.5" Polyurethane

Fork Dimensions

27" OAW x 45.25" OAL Standard
Maximum Elevation of 7.5"

27" OAW x 46" OAL Standard
Maximum Elevation of 7.75"

Hydraulics

DC Pump &
Chrome Plated Cylinder

DC Pump &
Chrome Plated Cylinder

Connectivity

Bluetooth or WiFi Connectivity /
Lithium-ion battery

Bluetooth or WiFi Connectivity /
Lithium-ion battery

Legal for Trade

Yes

Yes

Brakes

Electromagnetic Brakes

Electromagnetic Brakes

RPW-EL

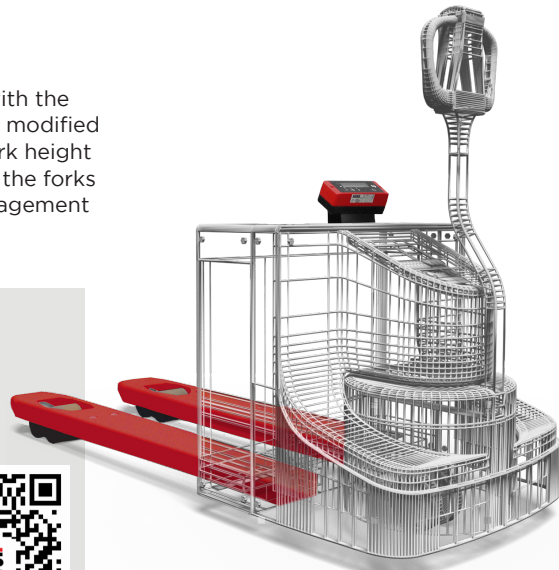
Optimize Your Crossdocking Operations

Retrofit or Factory Setting

All brands of warehouse machines can be equipped with the RPW-EL scale. The forks' construction is mechanically modified to mount the scale components with an increase in fork height of only .2 inches. The indicator displays the weight on the forks and communicates with a terminal or warehouse management system. Each load lifted is immediately weighed.

How to Weigh Incoming Palletized Products to Increase Revenue?

Each incoming pallet is weighed simultaneously, and the weight is presented as a QR code on the RAVAS indicator display. The operator scans the ID, opens the data set on the pallet, and uses the RAVAS WeightsApp to transfer it to the WMS system. Once the dataset is complete, weight processing is added without any impact on the cross-dock operation.



Double Scale

Double Your Performance by Picking Up 2 Orders at the Same Time

Double Scale

The RPW-EL Double scale is designed for picking pallet trucks with double fork lengths to transport two pallets, picking two orders in a single pass through the warehouse. Contact between pallets is prevented using a removable safety grid.

Avoid Errors

To avoid picking errors, each of the two pallets is weighed separately, each on its own scale.

This allows the WMS to do the following:

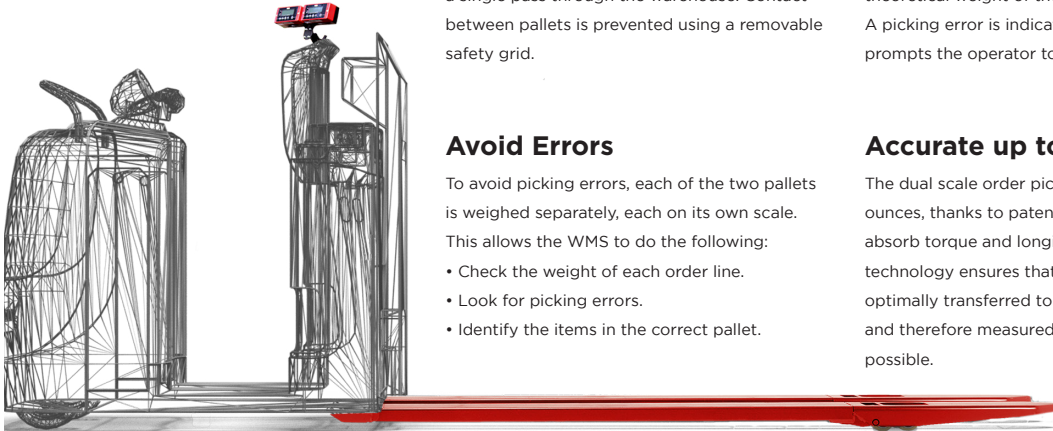
- Check the weight of each order line.
- Look for picking errors.
- Identify the items in the correct pallet.

WMS or ERP Connectivity

The WMS integrates the two indicators of the scale and checks if the actual weight of the items added to the pallet corresponds to the theoretical weight of the items in the order line. A picking error is indicated if it does not fit and prompts the operator to correct it.

Accurate up to 3 ounces

The dual scale order picker is accurate to 3 ounces, thanks to patented FlexBolts that absorb torque and longitudinal forces. This technology ensures that a load on the forks is optimally transferred to the load cell sensors and therefore measured as accurately as possible.





HAND PALLET JACK SCALES

Hand Pallet Jack Scales

Available Models



RAVAS-100 Series

Robust scale developed for generating mobile weighing data with basic functionality



RAVAS-300 Series

An advanced pallet jack scale, equipped with an extended functionality and available for legal for trade commercial weighing






RAVAS-500 Series

High-tech pallet jack scale, equipped with advanced functionality and connectivity. Available for legal for trade commercial weighing, piece counting functionality, and powered by a li-ion battery pack.



RAVAS-226X

An explosion-proof hand pallet jack scale, fully equipped for use in hazardous environments. ATEX certified and standard equipped with stainless steel forks.

Models	 RAVAS-100 Series	 RAVAS-300 Series	 RAVAS-500 Series	 RAVAS-226X
Tolerance	0.1%	0.1%	0.1%	0.1%
Graduation	2 lbs.	0-3,000 lbs. - 1 lbs. 3,000-5,000 lbs. - 2 lbs.	0-3,000 lbs. - 1 lbs. 3,000-5,000 lbs. - 2 lbs.	1 lbs.
Weighing Capacity	5,000 lbs.	5,000 lbs.	5,000 lbs.	5,000 lbs.
Battery Life	1 Year, When used 5 times a day	75 Hours, Low Battery Indication in Display	25 Hours continuous use, 50 Hours with sleep mode	70 Hours
Steering Wheels Load Wheels	Rubber Polyurethane, Single	Rubber Polyurethane, Single	Rubber Polyurethane, Single	Rubber, Antistatic Polyurethane, Single
Protection Class	NEMA 4 / IP65	Load Cells NEMA 5, Display NEMA 4 (Printer Excluded)	Loadcells NEMA 5, Indicator NEMA 4	NEMA 4 / IP65
Connectivity	No	Bluetooth 4.0 Standard / 2.0 Optional WiFi	Bluetooth 4.0 Standard / 2.0 Optional WiFi	Bluetooth 4.0 Standard / 2.0 Optional WiFi
Legal for Trade	Optional	Optional	Optional	Optional
Display	LCD, Digit Height 0.7 Inch	LCD, Dual Color, Digit Height 0.79 Inch, Backlight	Full-Color 5" Touch Display with 1" High Digits	6 Digits, 1.2 Inch



SHARE DATA EFFICIENTLY

**DATA PROCESSING
& TECHNOLOGY**

RAVAS

Connectivity

How Weighing Data is Processed & Managed

RIS RAVAS INTEGRATION SOFTWARE

Is the integration of data with a mobile weighing system complicated?

Not with the RIS software. The RIS is an easy-to-use Windows software that works with RESTful APIs, so it is not necessary to go to a specialist to carry out complicated programming at the ASCII character level.

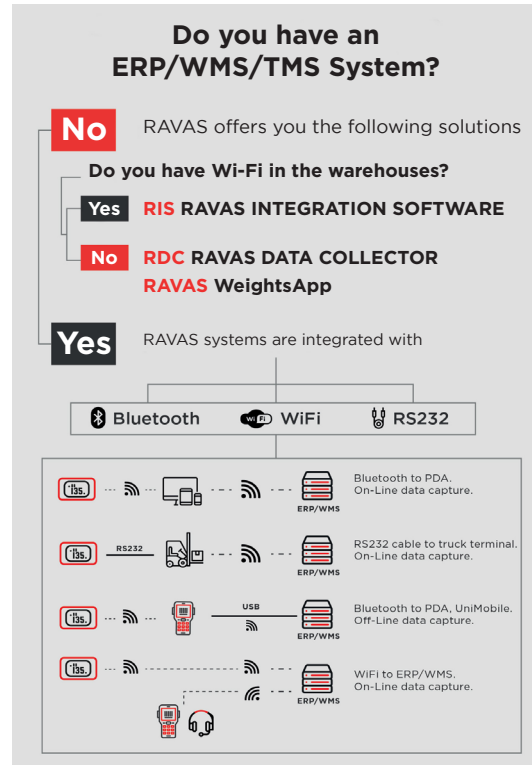
With RIS, you browse commands and establish two-way communication between RAVAS mobile weighing systems and a warehouse with a WLAN network and any WMS/ERP system.

RDC RAVAS DATA COLLECTOR

The RAVAS RDC runs under Windows and uses the warehouse's WLAN network to collect data on RAVAS indicators.

The RAVAS 320 & 520 indicators are provided with the RDC protocol suite. Pressing the PRINT key on these indicators will send all the weighing data directly to the PC and the RDC software via an integrated WLAN module.

Indicators are also provided with a buffer to save the weighing data temporarily. This is handy when a weighing system is temporarily out of range or Wi-Fi.



RAVAS WeightsApp

Connect with your RAVAS Weighing System



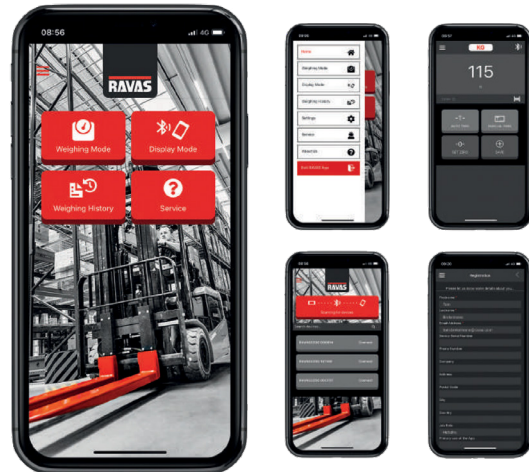
Get Data Instantly on your Smartphone

The RAVAS WeightsApp works with the RAVAS 320, 520 & iCP Data transmitter indicators. You must register for login functionality & monitoring purposes.

The RAVAS WeightsApp logs, tracks, and records mobile weighing data and time. Simultaneously, it utilizes Bluetooth 4.0 & Wi-Fi to connect & integrate the data with our RAVAS indicators and your business system.

It allows the entry of the tare weight and identification codes for the product and the operator.

The data can be sent as .CSV files by email to a PC, using WLAN or 3G.



Transfer your Weighing Data into Microsoft Excel



Jana Baervoets

jana.baervoets@ravas.com
+1 (213) 651-7129



Curtis Craig

curtis.craig@ravas.com
+1 (720) 614-1046



Joseph Furmansky

joseph.furmansky@ravas.com
+1 (330) 607-4309



RAVAS USA Mobile Weighing



RAVAS Mobile Weighing



salesoffice-usa@ravas.com



(330) 425-3092



1500 Enterprise Pkwy, Twinsburg, OH 44087