

mirrennium





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ON BOARD WEIGHING SOLUTIONS

TECHNOLOGY CONCEIVED FOR YOU



A NEW GENERATION OF POWERFUL YET SIMPLE TO USE ONBOARD WEIGHING SOLUTIONS

THE INSTALLATION OF ACCURATE AND EASY-TO-VIEW ONBOARD WEIGHING SOLUTIONS AND PAYLOAD MONITORING ENABLE FLEET OPERATORS TO CONTROL LOADS MOVED, DRIVING DOWN HAULAGE COSTS AND IMPROVING PRODUCTIVITY

As a company that manufactures and services OnBoard Weighing Solutions and Payload Management equipment worldwide, **VEI**'s solutions can be found on a diverse range of industrial vehicles, including wheeled loaders, excavators with bucket or grapples, rigid dump trucks, articulated dump trucks, underground LHDs, off-road self loading concrete mixers and forklift trucks.

The company's new generation of devices feature a bright colour display that is unequalled elsewhere in the industry. Visibility in direct sunlight is assured making the industry existing ones only poor displays with reflections and darkness when bright light enters the cabin.

The **VEI** software interface also makes these devices very easy to use and upgrade from "entry" to "advanced" level; the wireless connection availability makes weighing data available anywhere in real time. With a worldwide trained network of companies, **VEI** promises a high level of service and technical backup. Its systems can be linked to third-party dispatch systems with ready communication protocols in place.

VEI's milleniums and helperx new generation takes into consideration incabin space, ergonomics, visibility, ease of use and connectivity, while reducing the amount of componentry. In-cab space is optimised by the innovative design and applied electronics, which have permitted the building of a unique small Device incorporating the printer, when necessary, continuing **VEI** versatility of the integration as always been in the past.





DON'T SETTLE FOR LESS

LEGAL FORTRADE

WHY INSTALL millennium or helperx?

- High precision and legal for trade
- Minimum components with no junction boxes
- Swap scale from one loader to an other for no downtime
- Avoid overload fines by loading right in the first place
- Reduce haulage cost avoiding underload
- Reduce cycle times at the weighing bridge
- Weigh bridges and associated running costs can be eliminated with the legal for trade version
- Track loading efficiency
- USB data transfer at no extra cost
- Help stock and sales tracking
- End-to-end management of the payload process, with print out of the delivery tickets and data sent to billing system in real time using wireless cellular technology
- Real time, web-based consultation of loading and production data from any work station, tablet or smart phone
- Easy-to-use thanks to the intuititive commands and guided data entry user interface made possible by the VEI innovative Operating System
- High-speed thermal printing
- The production plant can be loaded then suspended temporarily to load trucks. The system can manage simultaneous loading tasks (multitasking)
- Operator ID login with autolocking if not authorized
- Multiple weighing modes: Incremental, Target, Vehicle and Recipe
- Worlwide factory trained support backup
- 3 years warranty, best in the industry





HOW TO CHOOSE THE SCALE THAT FITS YOUR OPERATION

START WITH ENTRY LEVEL AND EASILY UPGRADE TO ADVANCED. DO IT YOURSELF

If you are not sure how your operation will develop and therefore which type of scale you need, start with the miccennium5 "entry level", see what it can do for you and eventually upgrade later to the "advanced level" in a fast and easy manner. The upgrade will be sent to your email account and by using the USB memory stick you can easily upgrade your scale without expensive indicator swap and on-site service like it is normally done by other scale providers; **DO IT YOURSELF.**

With **VEI** your initial investment is kept at a minimum and your future upgrades too.

miccenniums



XUBCLDELX



ENTRY LEVEL

- Prevent overloading/underloading
- Check weight before scale house
- Plant loading
- Production Monitoring
- Small customer base

ADVANCED LEVEL

- Prevent overloading/underloading
- Check weight before scale house
- Plant loading
- Production Monitoring



- Large customer base
- Loading by Truck ID
- Load Destination ID
- Recipe program for blending operations











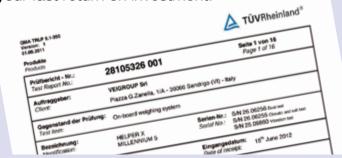


OPERATOR LOGIN

With the **VEI** scales you can set the Operator login ID and Password in order to allow only specified operators to use the scale. The operator name will appear on each loading record, printed or memory recorded, in order to be identified in case of need.

ACCREDITATIONS BRING SUPERIOR QUALITY

The **VEI** products have undergone diverse testing procedure in order to assure the customer satisfaction and industry latest requirements fulfillment especially dedicated to the On Board application. These accreditations assure product reliability over time and in harsh working conditions delivering superior quality, precision and therefore your fast return on investment.



ELECTROMAGNETIC COMPATIBILITY:

- ISO 13766 earth moving machinery
- ISO 14982 agriculture and forestry machinery
- EN 50498 vehicle instrumentation
- EN 61326 measuring devices
- MID European legal for trade approval
- SAE J1455, comprehensive of:

Dust test

Climatic test from -40° to +85°

Salt mist test

Vibration and shock test at 40G

FORTRADE for Trade Australia,

VEI products are certified Legal for Trade in Europe, Canada, Australia, Russia, China and

elsewhere the procedure is undergoing. Legal for Trade accreditiation certifies superior precision and weigh bridges with associated running costs can be eliminated.

HARDWARE CHARACTERISTICS

Power supply	9÷36Vdc	XS
Working Temperature	-40°C ÷ +80°C	XS
Metrological accreditation working Temperature	-25°C +60°C	XS
Measurement Error (%)	0 ± 1	XS
Shocks	40G tested	XS
Protection Class	Device IP 54. Sensors IP67	XS
Size	140 x 204 x 67mm. (5,5 x 8 x 2,6 inches)	XS
Weight	928 gr (2 lb)	XS
Display	HD color TFT	XS
Light ambient sensor	day/night automatic display brightness	XS
Keyboard	Menbrane, lighted	XS
Text editing	Mobile phone type	XS
Modem port	RS232	X
Printer port	RS232	XS
USB port	USB read/write	XS
Tilt switch	Open contact	X
Remote keys	Open contact	X

SOFTWARE FEATURES

Auto-add	XS
Tip off	XS
Diverse tool's calibrations	XS
Unit of Mass conversion	XS
Auto-Power On	XS
Auto-Shutdown	XS
Energy saving	XS
Plant and trucks simultaneous loading	XS
USB files backup/restore	XS
USB Software update	XS
USB/Wireless data update	XS
Operator ID login	XS
Split Weighing	XS



DELIVERY TICKET PRINTOUTS AND PRODUCTION REPORT

vprint

Thermal high speed printing, indestructible when compared to the needle printer which are very much sensitive to dust and mechanical breackdown. It can be fitted under the millenniums or helperx to produce a single, integrated unit or installed as a separate unit. The integration makes it the most compact unit in the market, easy to install and operative directly under the Device without having to move away from it.

Paper roll diameter 48 mm (1,9 inches) Paper width 57mm (2,2 inches)

PRINTOUTS AVAILABLE:







Integration is its plus





SLIPPRINTER

The Slip Printer generates 3 copies of delivery dockets in a pre-printed format.

Ticket size 105 x 224 mm (4,1 x 9 inches)



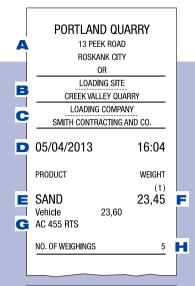
Signature



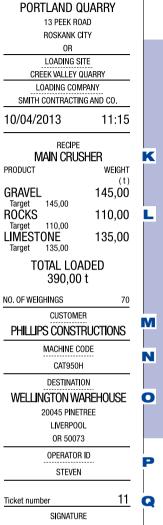
PRINTED INFORMATION INCLUDES:

- A Site Owner company with address
- Loading site with address
- Loading company with address
- Date and Time of printout
- Loaded Product
- Loaded Weight
- Vehicle ID with preset target 🔀
- Number of Weighings
- Multiple Products loading
- Products overall Total
- K Recipe Name
- Recipe Products loaded X
- M Customer Name with address X
- N Machine code
- Destination Name with address
- Loading Operator ID
- Ticket number
- R Signature box
- **S** Footer

Others printout formats are available. Please consult us with your requirements.



	PORTLAND QUARRY			
	13 PEEK ROAD			
	ROSKANK CITY			
	OB			
	LOADING SITE			
	CREEK VALLEY QUARRY			
	LOADING COMPANY			
	SMITH CONTRACTING AND CO.			
	SWITTI CONTRACTING AND CO.			
	11/04/2013	14:50		
	PRODUCT	WEIGHT		
		(t)		
	SAND	21,45		
	GRAVEL	15,20		
	ROCKS	45,45		
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	TOTAL LOADED			
J	82,10 t			
	_ ,			
	NO. OF WEIGHINGS	13		
	-			



QUALITY PRODUCTS SINCE 1983



Typical truck load history

USB DATA TRANSFER AT NO EXTRA COST!

AN ADDED VALUE, STANDARD MOUNTED IN THE DEVICE. BEST DEAL OF THE INDUSTRY



With a built-in USB port as standard on millenniums and helperx you can use a commercial USB memory stick and download the loadings accomplished during the day without extra optional cost: it's all built-in.

Read the USB memory stick in your PC and open your loadings by using a basic spreadsheet program like Excell; then import or export data as you like and where you like. The loadings data are saved into your USB by date and time so no overwriting will happen and your imports will be crystal clear to find them out.

Front USB port, compactness is standard





WIRELESS DATA TRANSMISSION



TRACKWEIGHT MOBILE

Stay connected to your loader 24/7, 7 days a week. **Trackweight** sends you real-time data from your loader wherever you may be, all you need is an internet connection.

Its compact function gives you:

- Unlimited transmission range
- Real time data transmission
- Production data at a selected email account.
- 100% data security as data is sent in real time and stored on a server provided for you.
- Automatic and direct billing without having to enter delivery tickets manually after they are printed on the loader.
- Easy management of all extraction sites located in and outside the country.
- Upgrade your scale data management remotely.

The use of **Trackweight** modem requires to open an account into **ipotweb.com** because data will be sent to **VEI** servers and from **ipotweb.com** visible to the registered account, only. In alternative data can be sent to a dedicated FTP server other than **VEI**. Please contact **VEI** representative for further info this regarding.





Ideal for short distance data transmission within the same site where the loading machinery is working. RFlink is in fact used when delivery tickets need to be printed at the exit of the loading site or inside industrial plants in order to transfer data in real time. Frequency and power transmission depends upon country of usage. It can be used for real time or delayed data transmission.

If you want to take advantage of **VEI** Payload Monitoring software an account must be opened into **ipotweb.com** and an internet connection must be available in the job site. Otherwise your loading Excell files will be placed one by one into your prefered PC folder.



RACICA

Quad-band cellular modem

Ideal in job sites where a WiFi network is existing. Your loader will be part of the WiFi network in matter of minutes and loading data available at your prefered location in the job site and web wide. Transmission range depends from your local access point. It can be used for real time or delayed data transmission. If you want to take advantage of **VEI** Payload Monitoring software an account must be opened into **ipotweb.com** and an internet connection must be available in the job site. Otherwise your loading Excell files will be placed one by one into your prefered PC folder.

REMOTE KEYS

REMOTE YOUR MAIN KEYS

Bring your main 2 keys closer to your hands by using this small size **remote keys** box. It can be screws fixed or velcro attached to where it is more confortable for your operation, usually the machine's right hand joystick.



IPOTWEB.COM MAKES YOUR BUSINESS MORE EFFICIENT

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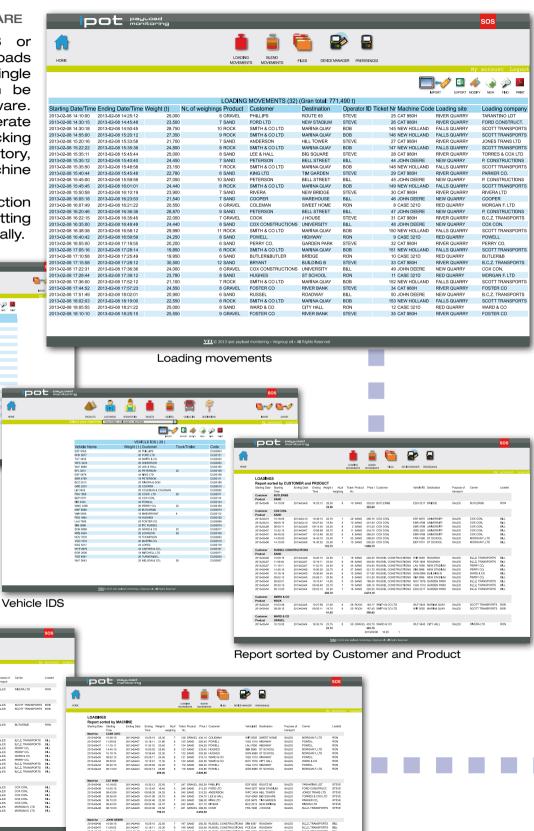
ipotweb

PAYLOAD MONITORING SOFTWARE

Whether you use the USB or wireless data transfer, the payloads information ends up in a single database from where it can be exported to a billing software. With ipotweb, you can generate different types of reports, tracking down in real time your inventory, sales analysis and machine productivity.

With **ipotweb.com** production and sales are linked to billing, cutting administration filing time drastically.

Customers



₽

Report sorted by Machine



VKIOSK UNRIVALLED AUTOMATION

VKIOSK FULL AUTOMATION









The vkiosk brings unparalleled automation to the sector, cutting running costs drastically and paying for itself in just a few months. With **vkiosk**, vehicles entering the loading site, whether it's a quarry, construction site or landfill site, are controlled through manual or automatic vehicle recognition. This provides direct control over all vehicles operating in the site, and the opportunity to deny authorization as necessary. But **vkiosk** is not just a simple access control system, as once a vehicle has been recognized, all associated data, such as the customer name, vehicle registration number, weight and product is sent wireless to the loading machine. This means the driver no longer needs to get out to give these details to the loader operator, and the latter doesn't have to enter data for the vehicle being loaded because it is already contained in the wireless data received from the vkiosk when the vehicle entered the site. Once the vehicle has been loaded, the loader operator, by deleting the running total on the scale, sends a message to the vkiosk specifying the weight actually loaded so when the vehicle is recognized at the exit, the driver receives the delivery docket automatically.

SCALE HOUSE AUTOMATION

ipotkiosk

Wether the job site is equipped with a scale house at the entrance, **ipot kiosk**, the software core behind the **vkiosk**, can be installed on the scale house PC to automate trucks loading, by registering the truck at the entrance, dispatching the truck info together with the weight to load to the loading machine and retrieving the loaded truck info at the exit for a quick delivery docket printout.

WIRELESS

REMOTE PRINTING

The **vkiosk** can be used for simply printing the truck delivery docket remotely as job site security regulations are becoming stringent for truck drivers to step down from their truck to get the delivery docket from the loader operator.















APPLICATIONS

THE WEIGHING CONCEPT

VEI products can be installed on a variety of machineries throughout diverse industries. In each one of them VEI scales deliver superior accuracy for a better optimization of your loadouts, production processes, sales analysis, inventory updates, trucks load optimization, loading machines productivity. VEI scales are installed by trained personnel assuring a perfect fit into your machineries or easily done by your personnel because they are simple and straight forward to install; **VEI** local support is always available to help you out in case of need. VEI scales can be easily transferred from one machine to an other of the same kind, they are durable and **DESIGNED TO LAST**.

WHEEL LOADER







Bucket close sensor 4 for legal for trade systems, only

the lifting pressure

Load sensors to know

- OPTIONS vPrint thermal high speed printer
 - Slip Printer slip dot matrix printer
 - Wireless data transmission
 - ipotweb.com payload monitoring
 - Remote keys



onboard instrumentation



2 Boom sensor 3 Stick sensor 4 Track sensor

- **OPTIONS vPrint** thermal high speed printer
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ADT ARTICULATED DUMP TRUCK





helperX - millennium5 onboard instrumentation



2 GR2 load sensing block

WEIGHT TOTALIZING



Totalizing option with push button



or with pedal

OPTIONS

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helperX - millennium5 onboard instrumentation



2 Load link on the rear axles

OPTIONS

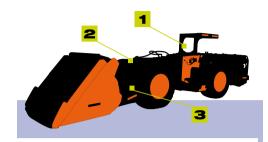
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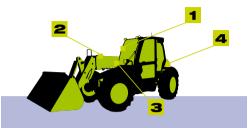


LHD **UNDERGROUND** LOADER

TELEHANDLER

OFF-ROAD CONCRETE









helperX - millennium5 onboard instrumentation



helperX - millennium5 onboard instrumentation



helperX - millennium5 onboard instrumentation



2 Contact-free weighing zone sensor



2 Arm position sensor (optional)



2 Contact-free weighing zone sensor



3 Load sensors to know the lifting pressure



3 Contact-free weighing zone sensor



Load sensors to know the lifting pressure



3 Load sensors to know the lifting pressure

OPTIONS

- **vPrint** thermal high speed printer
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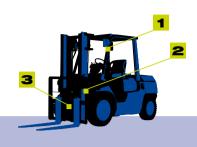
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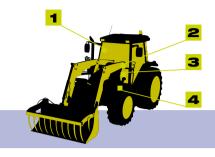


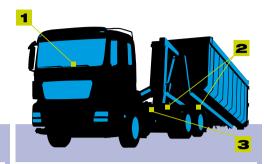
FORK-LIFT TRUCK

TRACTOR

ROLL-ON ROLL-OFF









helperX - millennium5 onboard instrumentation



helperX - millennium5 onboard instrumentation



helperX - millennium5 onboard instrumentation



2 Contact-free weighing zone sensor



2 Contact-free weighing zone sensor



2 Weighing pads on the truck's chassis



Load sensor to know the lifting pressure



Quick disconnect plug to easily release front arm from tractor



Junction box, command box, pump group, fuse box

OPTIONS

- **vPrint** thermal high speed printer - Slip Printer slip dot matrix printer

- Wireless data transmission
- ipotweb.com payload monitoring
- Remote keys

OPTIONS

- **vPrint** thermal high speed printer
- Slip Printer slip dot matrix printer

Load sensors to know the lifting pressure

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INDUSTRIES

VEI SCALES CAN BENEFIT A WIDE ARRAY OF INDUSTRIES

IN EVERY INDUSTRY WHERE A LOAD IS MOVED, **KNOWING** THE WEIGHT IS OF PRIME **IMPORTANCE BECAUSE IT IMPLIES** THE ENERGY TO MOVE IT WHICH **ESTABLISHES** THE **PROFITABILITY** OF THE ACTION.



WORLDWIDE NETWORK 50 TRAINED DISTRIBUTORS IN 50 COUNTRIES THOUSANDS OF SYSTEMS INSTALLED PROVIDING CUSTOMER SUPPORT AND ON-SITE TRAINING SINCE 1986



"WE LET YOU DECIDE WHO IS THE ON BOARD WEIGHING INDUSTRY LEADER PROVIDER!"

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