helperXE

Excavator On-Board Weighing Technology

VEI

DAVID — 07/31/17 15:53

TO LOAD	ton	PARTIAL	ton
21.00	1	**6.00**	1

PRODUCT	PEB 6420 RF
GRAVEL 16/32	27.00
CUSTOMER	
SMITH CONSTRUCTION INC.	

F1   F2   F3   F4   F5

helperXE

www.veigroup.com

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.

The excavator machine works in remote areas where truck scales are far away and therefore the accuracy of the loads into the trucks has a prime importance, together with the data management sent for invoicing or production assessments directly from the Excavator machines.

With **helperXE** installed onboard you are sure that each bucket is weighed, the load is within the allowed limits, the production is under control, the moved quantity is transmitted remotely for mining haulage analysis and stock inventory.

helperXE has been created following VEI twenty years experience on excavator application, the first in 1998. The arms, the bucket and the excavator inclination are controlled by inclination sensors without mechanical moving parts between the arms which can be easily damaged and have a certain wear and tear.

With VEI sensors the installation and setup are easy and fast because they can be installed in any arm's position without constrictions.

Try to imagine, if you have to install a sensor directly on the arm's pivot pin, making sure it is not axially offset and lever on the adjacent arm that has to make the sensor rotate accordingly while moving, the whole not built by the excavator manufacturer; the VEI sensors advantages are evident.

The Software, heart of the **helperXE**, allows you to follow in real time the position of each part and process the weight result in a deterministic and precise way, due to the many setting possibilities for controlling different working situations.

- **helperXE** manages your load flow for the best production control and sales invoicing.

- **helperXE** features a bright colour display that is unequalled elsewhere in the industry. Visibility in direct sunlight is assured.

- **helperXE** takes into consideration in-cabin 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.

Colour HD Display, high visibility under bright lights

User-friendly interface

USB memory stick reader/writer built-in as standard

Backlit keyboard

Phone-type keyboard for data entry

Easy navigation

Easy mounting and positioning

Why install **helperXE?**

- **High precision**
- **Minimum components with no junction boxes**
- **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**
- **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**
- **Worldwide factory-trained support backup**
- **3-year warranty, best in the industry**

Hardware Characteristics

Power supply	9-36 Vdc
Working temperature	-40°C - +80°C
Metrological accreditation working temperature	-25°C - +60°C
Measurement error (%)	0 ± 2
Shocks	40G tested
Protection class device	Device IP54. Sensors IP67
Size	140 x 204 x 67 mm (5.5 x 8 x 2.6 inches)
Weight	928 g (2 lb)
Display	HD colour TFT
Light ambient sensor	Day/night automatic display brightness
Keyboard	Membrane, lighted
Text editing	Mobile phone type
Modem port	RS232
Printer port	RS232
Canbus port	Can open
USB port	USB read/write
Remote keys	Open contact

Software Features

- Auto-add
- Tip off
- Diverse tool's calibrations
- Unit of mass conversion
- Auto-power on
- Auto-shutdown
- Energy saving
- Plant and trucks simultaneous loading
- USB files backup/restore
- USB software update
- USB/wireless data update
- Operator ID login
- Split weighing

TRYSOME
AUTO-ELECTRICAL ENGINEERING

helper**XE**

DELIVERY TICKET PRINTOUTS AND PRODUCTION REPORT

VPRINT

Thermal high speed printing, indestructible when compared to the needle printer which is very sensitive to dust and mechanical breakdown. It can be fitted under the **helperXE** 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.

Truck load	Truck load history	Production by favorite elapse dates	Management data	Configuration data

PRINTED INFORMATION INCLUDES:

A Site owner company with address

B Loading site with address

C Loading company with address

D Date and time of printout

E Loaded product

F Loaded weight

G Vehicle ID with preset target

H Number of weighings

I Multiple products loading

J Products overall total

K Recipe name

L Recipe products loaded

M Customer name with address

N Machine code

O Destination name with address

P Carrier name with address

Q Loading operator ID

R Ticket number

S Signature box

T Footer

Paper roll diameter 48 mm (1.9 inches). Paper width 57 mm (2.2 inches). Others printout formats are available. Please consult us with your requirements.

A PORTLAND QUARRY
13 PEEK ROAD
ROSKANK CITY
OR
B LOADING SITE
CREEK VALLEY QUARRY
C LOADING COMPANY
SMITH CONTRACTING AND CO.

D 07/31/2017   16:04

PRODUCT   WEIGHT
                              (t)
E ROCKS   23,45   **F**
Vehicle   23,60
G AC 455 RTS

NO. OF WEIGHINGS   5   **H**

PORTLAND QUARRY
13 PEEK ROAD
ROSKANK CITY
OR
LOADING SITE
CREEK VALLEY QUARRY
LOADING COMPANY
SMITH CONTRACTING AND CO.

07/31/2017   14:50

PRODUCT   WEIGHT
                              (t)
I SAND   21,45
GRAVEL   15,20
ROCKS   45,45

J TOTAL LOADED
82,10 t

NO. OF WEIGHINGS   13

PORTLAND QUARRY
13 PEEK ROAD
ROSKANK CITY
OR
LOADING SITE
CREEK VALLEY QUARRY
LOADING COMPANY
SMITH CONTRACTING AND CO.

07/31/2017   11:15

RECIPE
K MAIN CRUSHER
PRODUCT   WEIGHT
                              (t)
GRAVEL   145,00
Target   145,00
L ROCKS   110,00
Target   110,00
LIMESTONE   135,00
Target   135,00

TOTAL LOADED
390,00 t

NO. OF WEIGHINGS   70

CUSTOMER
M PHILLIPS CONSTRUCTIONS

MACHINE CODE
N HITACHI ZAXIS 350LCN

DESTINATION
O WELLINGTON WAREHOUSE
20045 PINETREE
LIVERPOOL
OR 50073

CARRIER
P SOUTHEAST EXPRESS INC.
54 WELLINGTON ST.
STOCKPORT
SK1 1PD

OPERATOR ID
Q DAVID

Ticket number   11   **R**

SIGNATURE   **S**

QUALITY PRODUCTS
SINCE 1983   **T**

WEIGHTS LOG FILE
TOTALS

07/31/2017   11:00

START OF WEIGHING 07/31/2017 09:13
END OF WEIGHING   07/31/2017 09:20

PRODUCT   WEIGHT
                              (t)
SAND   23,45

NO. OF WEIGHINGS   5
NO. OF TICKET   1703
OPERATOR ID   DAVID
CUSTOMER   RICHARDSON PLANT LTD
DESTINATION   PALM TREE DRIVE

LOADING SITE
PORTLAND QUARRY

LOADING COMPANY
SMITH CONTRACTING AND CO.

MACHINE CODE
HITACHI ZAXIS 350LCN

Typical truck laod history

Zenith Aggregates

DATE AND TIME
07-31-2017   15:53
CUSTOMER
PHILLIPS CONSTRUCTIONS
HIGHWAY 61
44870 SANDUSKY
OHIO
VEHICLE
ESF 9355
WEIGHT
26500KW

SLIP PRINTER

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)

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 **helperXE** 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 Excel; then import or export data as you like and where you like. The loadings data are saved onto your USB by date and time so no overwriting will happen and your imports will be easy to find.

Front USB port, compactness is standard

REMOTE KEY

Remote your main keys

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

REMOTE DISPLAY

Display weight live outside the cabin

The remote display helps in those situations where the weight must be shown live outside the cabin. When loading a truck your customer has a real-time knowledge of how much weight you are unloading into the truck.

IPOTWEB.COM MAKES YOUR BUSINESS MORE EFFICIENT

Payload monitoring software

Whether you use the USB or wireless data transfer, the payload's, information ends up in a single database from where it can be exported to a billing software. With ipotweb.com, 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.

Reports

- Loading movements
- Customers
- Vehicle IDS
- Report sorted by Customer and Product
- Report sorted by Product
- Report sorted by Machine

IPOTAP, WHAT YOU WERE MISSING IS HERE

The remote display help in Ipotap is an ideal tool to control production and sales in real time directly from your pocket device. It is suitable for every kind of loading equipment: a front-end loader, an excavator, a reach stacker, a fork lift, a mining or road truck, a garbage collecting truck. Ipotap gives you the true insight of your machine production and sales. Imagine receiving vital information on your fleet production in real time while being seated somewhere else. Ipotap is supported by ipotweb.com a VEI production and sales data insight web portal connected wireless to your working equipment. Ipotap is a free download from the App Store and Google Play.
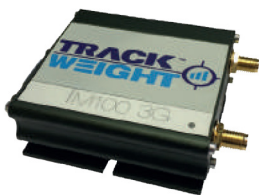
TRACKWEIGHT MOBILE

Quad-band cellular modem

Stay connected to your loader 24/24, 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.

In order to use the Trackweight modem, the operator is required to open an account on ipotweb.com as the data will be sent to VEI servers from ipotweb.com and will be visible to the registered account only. Alternative data can be sent to a dedicated server other than VEI. Please contact a Trysome representative for further info.

RFLINK

Radio modem. Real-time data transmission. Limited range

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 on ipotweb.com and an internet connection must be available on the job site. Otherwise the .txt files will be placed one by one into your prefered PC folder.
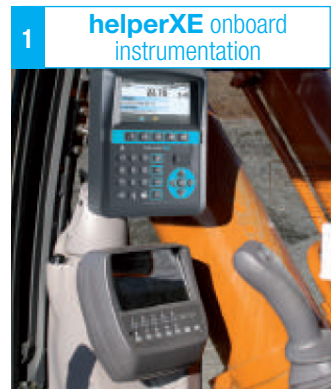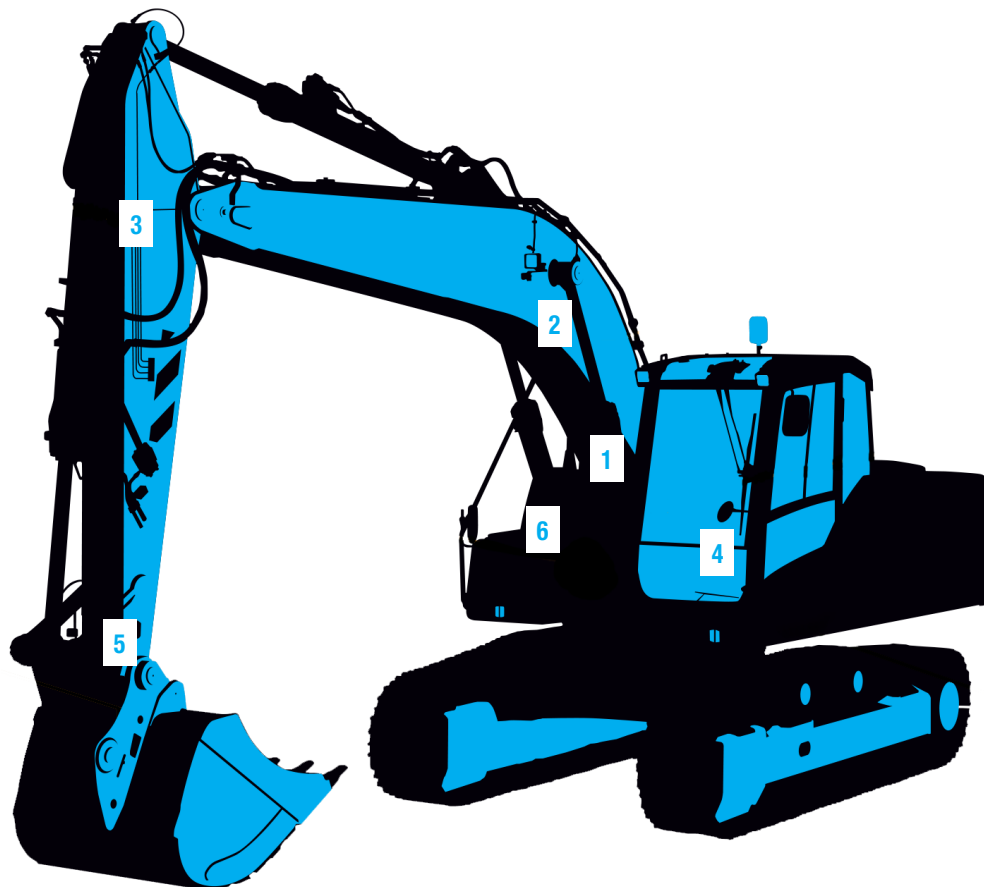
WiFi

WiFi modem

Ideal on job sites where a WiFi network is existing. Your loader will be part of the WiFi network in a matter of minutes and the loading of data will be available at your preferred location on the job site and web wide. Transmission range depends on 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 on the job site. Otherwise the .txt files will be placed one by one into your prefered PC folder.

THE **WEIGHING** CONCEPT

The position of the sensors can be chosen and their mounting is easy and fast. **helperXE** is installed by trained personnel assuring a perfect fit into your machinery and delivering superior accuracy for a better optimization of your loadouts, production processes, sales analysis, inventory updates, truck load optimization, loading machines productivity. VEI scales are durable and **DESIGNED TO LAST**.

1 **helperXE** onboard instrumentation

2 Boom sensor

3 Stick sensor

4 Track sensor

5 Bucket sensor

6 Load sensors to know the lifting pressure

TRYSOME
AUTO-ELECTRICAL ENGINEERING

OTHER FIELD **APPLICATIONS**

This product may not be a stock item. Please speak to our sales representatives about lead times. Lead times, price and availability can only be determined on receipt of an official quote from our supplier. This can sometimes take up to 3 days.