

All components are designed and widely tested to withstand the harsh environment in which excavators are used. In addition, all pods and sensors are pressure tested in our pressure tank at our own testing facilities.



DYNAMIC ACCURACY IS THE DETERMINING FACTOR

Mr Demunter, Jan De Nul Group

“We are continuously looking into the latest developments in survey hardware and software in order to meet our various project requirements. Nowadays dynamic accuracy is becoming a key focal point. It is this factor that increases productivity. Our current projects require a flexible, modular and robust hardware setup.

As an “off the shelf” product was simply not available on the market, we asked MariLogic if they were able to provide a system adapted to our needs. They proposed us to have a look at their eDigger product. Unlike other proprietary systems on the market, it has an open interface to many external survey software packages. It meets all our company standards including dynamic accuracy and durability. It is flexible and expandable plus any needed improvements or new developments are welcomed. Above all eDigger Lite is user friendly, easy to operate and install and has a straight forward method of calibration and trouble shooting.

The eDigger Lite has been installed on excavators operating in Sweden, France and Ghana and our experience so far is very positive and promising. For our future projects, eDigger will become the ‘standard’ excavator setup.”

Mr Demunter is Area Survey Manager at Jan De Nul Group. He is responsible for technical support to surveyors active on foreign projects; for project set-up, follow-up, reporting and technical assistance.

About Jan de Nul Group

People and global expertise. These are the corner stones of Jan De Nul Group’s phenomenal success.

Thanks to its skilled employees and the world’s most modern fleet, Jan De Nul Group is a leading expert in dredging and marine construction activities, as well as in specialized services for the offshore industry of oil, gas and renewable energy. The combination with its civil engineering and environmental activities renders the Group complete.



eDigger Lite is easy to install and comes with a comprehensive and detailed manual. The system is straightforward to operate and can be calibrated with one touch. Above all, the system is very competitively priced in the market.

All components are clearly labeled and recorded which facilitates the ordering of single and spare parts. All parts are carefully packed and shipped all over the world.



FEATURES:

- compatible
- user-friendly
- intelligent
- accurate
- rugged

MARLOGIC PRODUCTS

eDigger Lite is a product from MariLogic Products. MariLogic Products delivers products tailored specifically for businesses within underwater operations, dredging, offshore and defense applications. All products are developed, manufactured and thoroughly tested in-house. MariLogic Products consists of a team of specialists with many years experience in the design, development and production of high quality components. MariLogic Products provides worldwide service.

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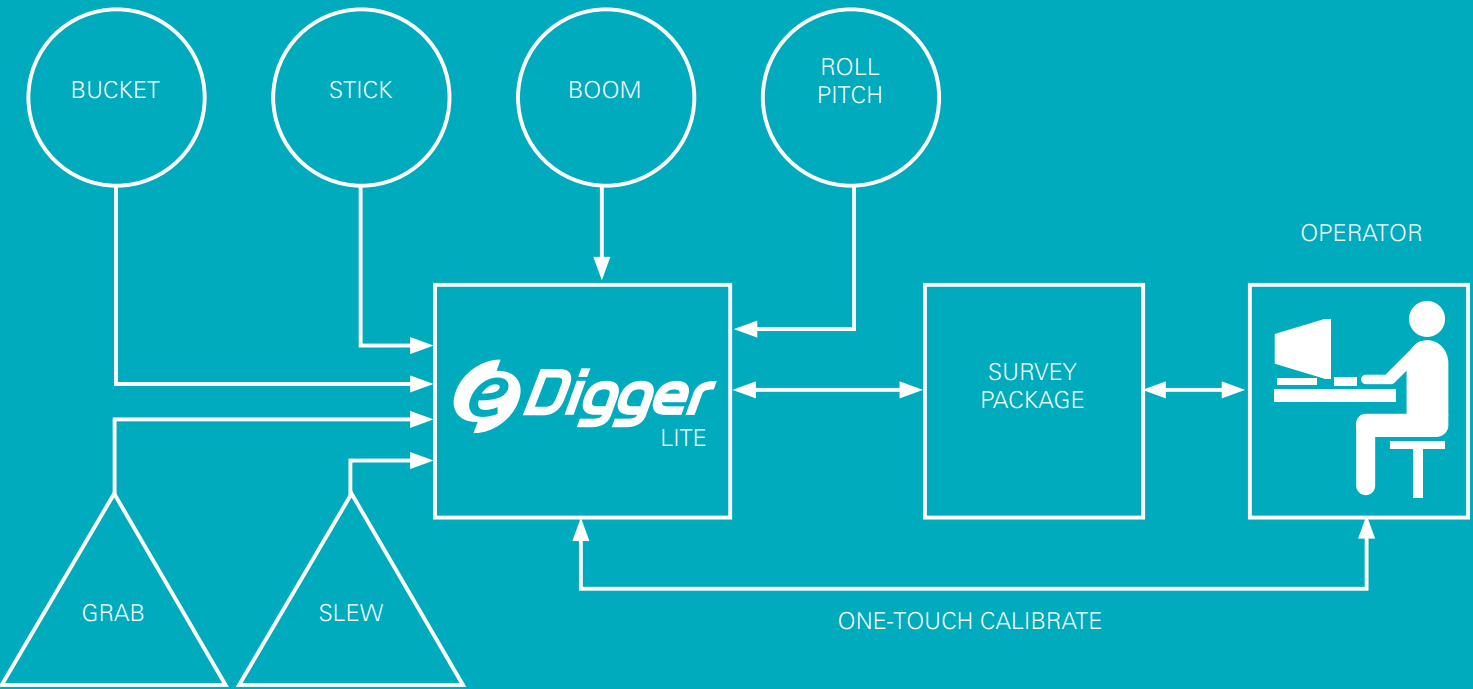
eDigger LITE



eDigger LITE

THE OPEN SOLUTION FOR EXCAVATION MONITORING





eDIGGER LITE

The eDigger Lite system forms the backbone of your excavation monitoring. It increases the efficiency of your dredging operations. eDigger Lite is a complete and robust instrumentation package with high shock resistance. It delivers extremely accurate angle measurements of the boom, stick, bucket, roll and pitch to a survey software package. eDigger Lite offers the highest accuracy in the market.



To complete the system, delivery includes high quality stainless steel mounting hardware, cabling, cable protection hoses, hose clamps and connectors.

The cables to the sensors feature a wire break detection. In the event that a cable is damaged, the system automatically detects which cable is broken.

The main components of the system are the various sensors enclosed within watertight, durable, high end AISI 316L stainless steel housings.

They are designed and suitable for deep submersible purposes, 50 msw.



COUPLER POD

This watertight pod connects the bucket sensor cable to the system. Should the bucket sensor cable break only a short length of cable needs to be replaced saving both time and money.



DOG BONE SENSOR

Measures the bucket angle indirectly. There are two versions available: a heavy duty compact version for digging in harsh environments (big stones) and a more cost effective lighter version with parallelogram.



DISPLAY & POWER CONTROL

With this unit, the entire system and all of its data can be monitored and overseen. At a glance, the operator can see the boom, stick, dog bone and bucket angles as well as the roll and pitch values. With the push of a button, the operator can perform a re-calibration, something that makes eDigger Lite unique in the market. A simple menu guides the technician through the configuration and calibration process.



STICK SENSOR

Heavy duty stainless steel angle transmitter to measure the boom to stick angle.



JUNCTION BOX

To minimize the number and length of cables running along the excavator, junction boxes are installed. This reduces the exchange time for a broken cable and optimizes transportation of the various excavator parts. Alternatively, each sensor can be connected to the main unit directly via individual cabling.



BOOM SENSOR

Heavy duty stainless steel angle transmitter to measure the boom to excavator angle.



DUAL INCLINATION SENSOR

Accurately measures the roll and pitch of the excavator. The sensor is shock and vibration resistant and temperature compensated.



MAIN UNIT

The heart of the system is housed in a robust waterproof box. It is easy to install via several clearly marked connectors ensuring the unit is to be connected in one way only. The system software can be extended functionally in the field using a 'remote' software update.

SLEW SENSOR

For measuring the rotation of the uppercarriage in relation to the undercarriage, a slew angle sensor can be connected.