



IPLOCA
INTERNATIONAL PIPE LINE & OFFSHORE
CONTRACTORS ASSOCIATION

The Vacuum Pipe Lifter with the lowest Total Cost of Ownership

IPLOCA Novel Construction Spring Session
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The logo for VLENTEC features a large, stylized letter 'V' in a bright yellow-green color. To the right of the 'V', the letters 'LENTEC' are displayed in a bold, black, sans-serif font with a 3D effect. The background of the slide is a photograph of a yellow excavator lifting a large blue pipe section in an outdoor setting.

VLENTEC

Presented by
Brendan Boelema

CEO of Vlentec
companies



History of the vacuum pipe lifter

- > 1980's:
Hydraulic powered vacuum pipe lifters
- 1988:
Self-contained vacuum pipe lifters with combustion engine
- 2016:
Electric powered vacuum pipe lifters



Battery powered vacuum pipe lifter

- User advantages:
 - Practically no noise or any other emissions
 - Easy installation
- Technical advantages:
 - Up to 600 lifts on a single charge
 - Stable voltage to electric motor
 - No external power supply
 - Can be fitted to any handling device
- Financial advantages:
 - Low running cost
 - Minimal maintenance
 - Low chance of breakdown



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Trial electric excavator powered vacuum pipe lifter



- Users advantages:
 - Practically no noise or any other emissions
 - Easy installation
 - Unlimited rotation
 - No need to recharge or check battery level
- Technical advantages:
 - Can be fitted to any excavator or other lifting device with 24 Vdc power supply
 - No refueling
- Financial advantages:
 - Low running cost
 - Minimal maintenance
 - Low chance of downtime



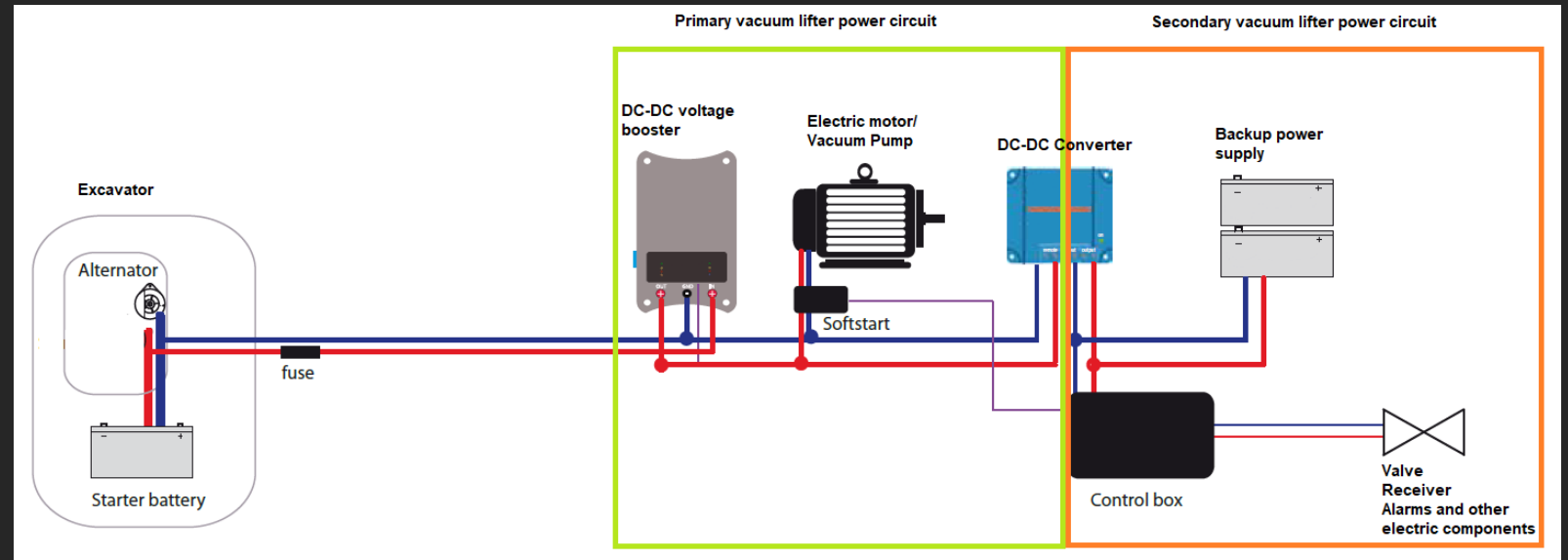
Electric excavator powered vacuum pipe lifter (ED125N)

- Users advantages:
 - Practically no noise or any other emissions
 - Easy installation
 - Increased site safety
 - Alarms and control gear powered by backup battery supply
- Technical advantages:
 - Streamlined beam
 - Activation of vacuum pump operated digitally, pump only runs on demand
 - Batteries can be fitted in beam for independent power supply
 - Can be fitted to any excavator or other lifting device
- Financial advantages:
 - Low running cost
 - Minimal maintenance
 - Low chance of downtime



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General wiring of electric vacuum pipe lifter



Lowest total cost of ownership

- Purchase price of unit equal to ICE vacuum pipe lifters
- No oil and filter replacement to motor
- Up to 1/10th of pump running hours thus less maintenance
 - Motor is fitted with soft start to diminish wear when motor engages
- Practically no additional fuel burn
 - Minimal loss of energy in heat
- No vibrations, no heat, no fuel = less chance of breakdown



Other improvements to all Vlentec vacuum lifters resulting in the lowest TCO



- 2 stage air filtration, first stage never needs replacing
- Maintenance free valve
- No gearboxes used => no loss of energy
- High efficiency oil recirculated vacuum pump to reach up to 99% vacuum
- Suction pads designed to handle multiple pipe diameters minimalizing investment when handling multiple diameters
- Vlentec durable rubber seal can be used twice as long as any other seal due to the design of the suction pads profile.



Clients experience

"The guys in the field are most happy with the quiet vacuum lifter."

Mr. West, Operations manager from a pipeline contractor in Australia. Has replaced diesel units for electric.

"The high reliability and low running cost has made us to decide to replace all diesel rental units for electric units"

Mr. Liston, Construction Manager from a pipeline contractor in Ireland.

"Fitting the unit is easy and fast. We switch between bucket and vacuum lifters many times a day."

Mr. Jones, Owner of a equipment rental company in the United Kingdom.

"Minimalizing maintenance was of great advantage when working in the desert."

Mr. Al Raisi, Operations Director for a pipeline contractor in the Sultanate of Oman.

"Why would one buy a diesel or hydraulic vacuum lifter when this reliably electric technology is available?"

Mr. Kurek, Project Manager from a pipeline contractor in Australia.



Thank you for your attention

VLEN

"Leading the way in vacuum lifting equipment"

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