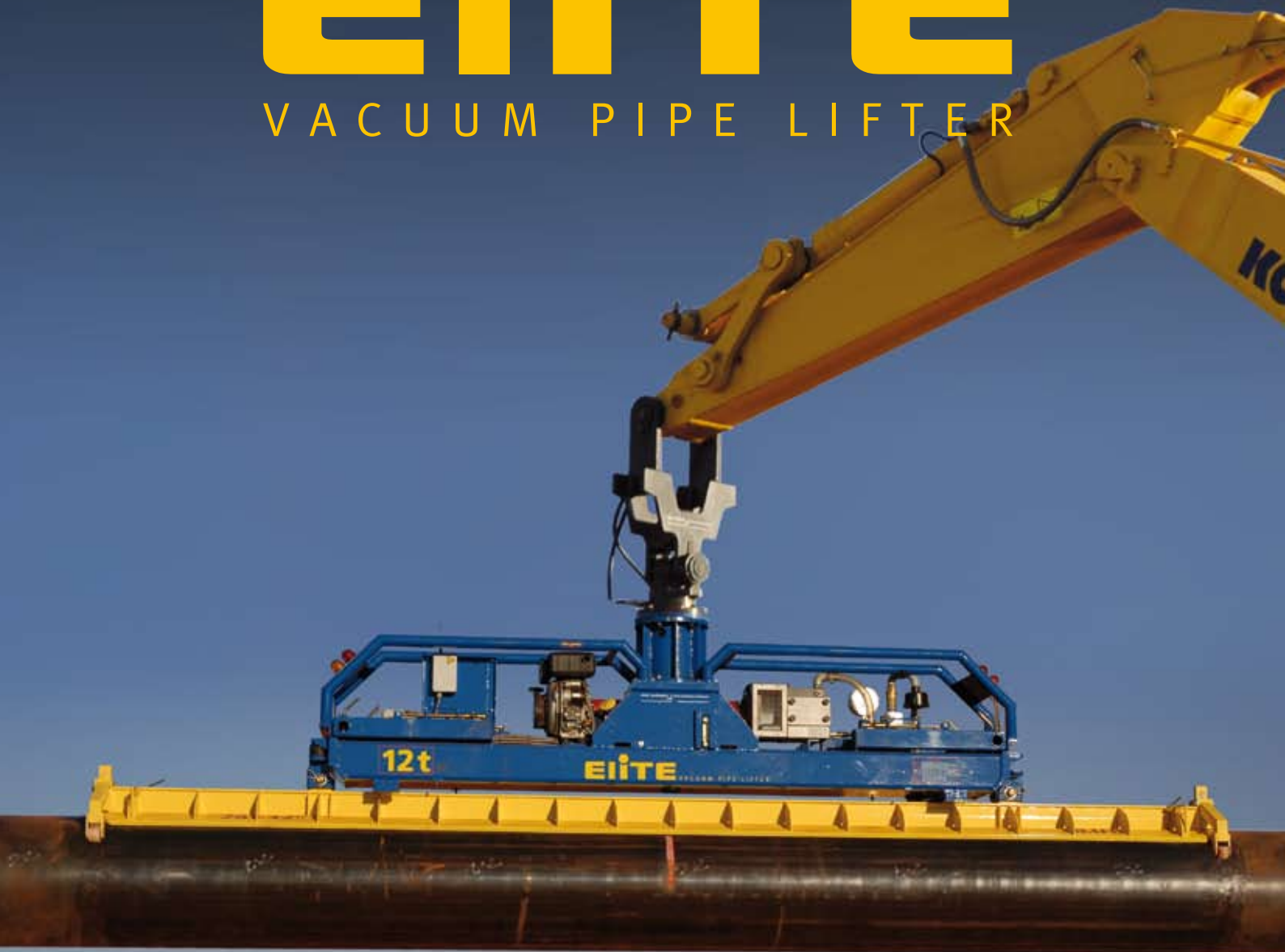


# EiITE

VACUUM PIPE LIFTER



The ElITE vacuum pipe lifter is a fully self contained vacuum pipe lifting attachment specially designed for the rigorous world wide pipeline construction sites of today. Manufactured according to the highest European and ASME standards the ElITE vacuum pipe lifter delivers almost 90% vacuum (negative pressure) to the pipe surface at a speed of 1,5 seconds. A 280Ltr vacuum tank/reservoir releases almost 0,9kg/cm<sup>2</sup> suction power to the pipe surface giving an extremely high and dynamic suction power. Additionally dust, rain and other natural elements will have no negative effect to the performance of the machine or suction. The ElITE vacuum pipe lifter can operate in ambient temperatures of -25°C to plus 55°C with high humidity rates of 90%. The ElITE vacuum pipe lifter can be attached to cranes (1 hook or 2), excavators, side booms or virtually any other equipment type carrier. Warning indicators, alarms, sirens, vacuum pressure gauges are naturally all standard setups for our equipment indicating to the operator at all times the current and safe performance status of the equipment.

### Ideal design, robust and weather sturdy components.

- Service crews have extremely easy access to all components and parts
- No confined spaces or optically obscured components allowing for minimum service/ maintenance down time of the equipment
- Operators with such an outstanding and complete all - round view become easily familiar the equipment and how it works, in a very short space of time
- Low 1500 rpm direct drive shaft from the diesel engine to the vacuum pump (minimum engine strain)
- Guaranteed ZERO damage to PE coating



### When fitted to an excavator the ElITE vacuum pipe lifter is the perfect pipe handling tool for stringing, stacking, truck, rail car or vessel on and off loading.

The ElITE vacuum pipe lifter can be equipped with a 360° hydraulic rotor and mechanical vice oscillation brake (no rubber dampers) which reduces the rocking/ swinging during the deployment of pipe. The power for the hydraulic rotator is taken from the excavators auxiliary lines for bucket curl circuit.

### Multi rotator yoke

Manufactured to fit a larger range of excavator brands and sizes



### Standard and dedicated rotator yoke

Manufactured to fit your dedicated excavator



Naturally you may want to fit the ElITE vacuum pipe lifter to a crane, for this reason **we supply a standard sized crane eye free of charge.**

**Standard crane eye size** (Larger crane eyes on request).

Height: 250mm, Width: 120mm

Thickness from side: 60mm, Thickness from top: 60mm

The ElITE vacuum pipe lifter is also equipped with a heavy duty twin suspension at both ends of the main unit. This eases any excessive pressure being transferred from the excavator hydraulic system onto the pipe surface.

### Our suction pads cover a 6 inch diameter jump which gives you the flexibility of covering a number of pipe diameters with a single suction pad.

- i.e. 30" up to 36" without excessive rubber sealing ware and tear.
- We manufacture from as small as 5.5" up to 120" and larger
- We can lift pipe lengths of 6m/ 20ft, 12m/ 40ft, 18m/ 60ft.
- Twin type suction pad which has a central gap to over come the PE/ weld joint is ideal for 24m/80ft double jointed pipes.
- When the suction pad is not in use the guide rollers can be locked down and used as prop legs which prevents the rubber sealing on the underside of the pads from being damaged by ground floor grit or dirt.



## Remote control.

The operator is seated in the safest working environment possible – the excavator cabin. By use of the excavator joy sticks and our remote control set, he can easily and independently drive, position, rotate and apply or release suction at his own will.

**Suction:** Only possible with a diagonal simultaneous action of both green buttons.

**Release:** Only possible with a diagonal and simultaneous action of both red buttons.



## Remote control consists of:

- Green for suction
- Red for release
- Start, stand by
- Emergency off
- Code key
- Receiver, transmitter, re-charger and 2 batteries.

*International socket adapters on request*



## Operator training

Our operator training school runs for 5 days at your site location. Our concept is a "hands on" tailor made practical and standardised program to fit your requirements. This gives all operators and mechanics the confidence and knowledge required when working with vacuum lifting equipment. The schooling is completed with the presentation of a certificate of competence to all successfully participating personnel.

### Program:

- Introduction
- Installation
- Safety
- Handling
- Servicing and Maintenance
- Fault finding and rectifying



Left demonstrates a power shut down scenario. Although both vacuum pump and engine have been shut down, the EiTE vacuum pipe lifter holds the pipe securely. (Naturally this is not the standard way a pipe should be lifted).



### Standard features (Diesel type unit)

- Diesel engine (standard)
- Diesel engine (special IPA version)
- Sunblast treated steel
- Vacuum pump (Absolutely no oil)
- Warning lights (engine)
- Warning lights (Vacuum)
- Siren (engine)
- Siren (Vacuum)
- Fuse cabinet
- Check valves
- Main unit stand/ prop legs
- Suction pad stand/ prop legs
- Radio remote control
- Crane eye
- Vacuum pressure gauge (main unit)
- Vacuum pressure gauge (suction pads)
- Air filtration
- Twin suspension on main unit

### Dimensions of the standard 8000 kg unit

Unit	Vacuum Unit (Blue)	Crane eye	Rotator assembly	Suction pad 30 - 36 (Yellow)
Length	3750 mm	400 mm	400 mm	5850 mm
Width	510 mm	300 mm	330 mm	550 mm
Height	Only 820 mm	440 mm	950 mm	420 mm
Weight	830 kg	70 kg	230 kg	350 kg

**Available models: Diesel or electrical units with: 8000 kg, 12000 kg or 16000 kg lifting capacities**

### Summary facts

- Engineered and manufactured according to European and ASME standards
- Rapid and high powered safe pipe deployment
- No requirement for ground crews to climb pipe stacks or trucks
- Less ground crew personnel
- Reduction of accident risk and man power costs
- Rapid productivity due to rapid suction cycles
- Less stand time/ costs required for rail cars, vessels or trucks
- Guaranteed no damage to the pipe or PE coating
- Irregularities found on pipe surfaces (spiral welds etc) are not an issue
- Dust, soil, dirt or rain do not interfere with the performance or safety
- -25°C to plus 55°C with high humidity levels of 90% are not an issue
- Warning lights/ sirens are standard
- Check valves are standard
- 360° endless rotators are available
- Radio remote or cable controller available
- Diesel version with a standard 24ltr/ 5.3 gallons fuel capacity
- Standard pipe lengths which can be deployed: 6m/ 20ft, 12m/ 40ft, 18m/ 60ft, 24m/ 80ft
- Diesel or electrical units available
- Your delivered unit can be easily and quickly adapted for either crane hook or excavator applications
- All size suction pads available
- The ElITE Multi vacuum pipe lifter can be manufactured to lift 1 - 6 pipes simultaneously.

**The company Schoenbeck constantly improves its products and services to reach the highest of expectations which customers deserve when committing themselves. Starting with the highest standards of engineering, product design and carefully selected components we deliver with the pride and enthusiasm which reflects in the people using them.**

*Schoenbeck, quality products from professionals for professionals*



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