Hoists & Winches

:: Electric Chain Hoists 26
:: Manual Hoists 30
:: Pneumatic Hoists 31
:: Winches 32
:: Beam Trolleys 34
Compact Electric Chain Hoists

Electric chain hoists are the perfect solution for load hoisting applications and can be supplied in a variety of capacities, designs and power supplies. They are normally used in conjunction with a swing jib crane or an overhead crane and are designed to increase productivity. The hoists have a hook suspension unit which can be mounted into a manual, geared chain or powered I beam trolley, with low headroom options available.

- Capacity 60 – 10,000 kg

Examples of electric hoists being used in everyday industrial applications

Technical Features

Linear, compact design with built in control cabinet and reduction gear.

- Two-speed hoisting
- Variable speed electric powered or manual travel
- Standard height of lift 3 m
- FEM group 1 Bm and 2 m
- 3 phase and single phase models
- Stainless steel range

Electric chain hoists are designed to ensure maximum safety to the operator.

- ON/OFF mushroom button on control pendant
- Top and bottom limit switches as standard
- Torque limiter
- Lifting movement disc brake
- ISO 9001 certified
- Low voltage control
Hoists

Additional Options

- Single phase models
- Radio remote control
- Stainless steel chain
- Stainless steel hook and hook block
- ATEX models
- Low headroom trolley
- Travel limit switches
- Rain protection covers
- Gear limit switch
- Temperature rise limiter on motor
- Self-lubricated chain
- Dual brakes
- Single speed models

Fixed hook
Manual Push Trolley
Powered Trolley
Push button Digichain Manipulator
Low Headroom Powered Trolley
Pendant Control
EUROMOTE Radio Remote Control
ATEX Certified Chain Hoist
Electric Chain Hoist Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>B1</th>
<th>BC</th>
<th>BC1</th>
<th>BC2</th>
<th>C</th>
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<th>D</th>
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Standards and hoisting regulations

**CE directive.** Since 1st January 1995, the European Machinery Directive 93/37/EEC obliges that machine constructors ensure that their machinery complies with certain regulations, standards, national legislations and technical specifications.

Every VERLINDE product is CE labelled and is delivered with a CE compliance certificate (annex IIA) or with an incorporation certificate (annex IIB).

**FEM:** European lifting equipment association.

**SWP:** A Safe Working Period is calculated for each electrical hoist unit according to the average operating time of the hoisting equipment, load capacity and class of application. After this period, a general service carried out by the constructor is necessary.

**Class of operation.** According to FEM classification, two fundamental criteria must be taken into account: the type of duty and the class of duty (according to average daily operation time average load).

**ISO standard.** Classes of operation can also be defined according to ISO grouping (1Am = M4, 2m = M5, 3m = M6, etc.).

**Type of duty.** Light service: equipment rarely subject to maximum load and frequently to very little load. Medium service: equipment quite often subject to maximum load and frequently to very little load. Heavy service: equipment frequently subject to maximum load and frequently to medium load. Very heavy service: equipment subject to maximum or near maximum load.

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* Duty factor in % = \( \frac{\text{Hoisting time + lowering time}}{\text{Hoisting time + idle time + lowering time + idle time}} \) x 100
### Hoists

#### Standard Models

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<th>S.W.L. (kg)</th>
<th>Hoist Model</th>
<th>E.E.M.</th>
<th>Lifting speeds (m/min)</th>
<th>Number of falls</th>
<th>Hoisting motor power (kW)</th>
<th>Fixed hook</th>
<th>Monorail trolley unit</th>
<th>Motorised travelling</th>
<th>Chain</th>
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**Load Range**

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<th>Chain</th>
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* Available in this version  – Not available in this version
Manual Hoists

Chain Hoist

- Capacity 250 – 10,000 kg
- Compact design and capable of high performance.
- All hoists are tested to current standards

Technical Features

- Machined chain sprocket and gears provide a smoother, more efficient operation
- Overload limiting device prevents lifting loads beyond the rated capacity
- 3m standard height of lift
- Hand chain is 0.5 m less than lift height
- Extra height of lift available if required
- High strength grade 80 alloy steel load chain with galvanised finish for corrosion resistance
- Rugged construction featuring steel gearcase and handwheel cover
- Hooks are alloy steel, heat treated and equipped with hook latches and inspection points

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<th>Lift height mm</th>
<th>Load chain number of falls diameter X pitch</th>
<th>Effort on actuating chain (kg)</th>
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<td>3000</td>
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<td>9 x 27</td>
<td>38</td>
<td>78.5</td>
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<td>10000</td>
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<td>4</td>
<td>9 x 27</td>
<td>38</td>
<td>78.5</td>
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</tbody>
</table>

Options

- Stainless steel
- ATEX certified
- Built into beam trolley

Standard Chain Hoist

Lever Hoist

Ex Block & Tackle with Beam Trolley

Chrome Plated Block & Tackle

Non Sparking Bronzed Hooks
Pneumatic Hoists

Pneumatic hoists are particularly suited to environments where there is a risk of explosion due to inflammable gases or where the duty is onerous.

Unlike electric hoists, the compressed air power driving medium does not produce any ignition risk thus making the hoists extremely suitable for hazardous areas.

Standard Features

- Capacity 140 – 10,000 kg
- Rotary vane motor
- Robust epicyclic gearbox (grease filled and sealed)
- Choice of pendant control or pull cord
- Mechanical, paddle action upper and lower limit switches
- Cast steel housing
- Variable speed
- Internal silencing
- Carbon steel swivel hooks with safety catches
- Load chain options
- High speed
- Compact design

Options available

- Spark resistant
- Marine specification
- Corrosion resistant
- Chain collectors
- ATEX certified
- Beam trolleys
- Filter regulator kits
- Festoon kits
- Suzie coil supply hoses
Manual Winches - ME & MV

- Capacity 150 – 3,000 kg
- Worm geared or gearing type – hand operated
- High degree of protection – heavy duty chlorinated rubber paint
- Four anchor points for stability
- Ratchet brake with stainless steel spring
- Declutchable drum on all models over 250 kg
- Adjustable / removable / lockable crank handle
- Flexible rope fastener
- Suitable for lifting and traction

Manual Winches - MA & MB

- Capacity 300 – 1,350 kg
- Wall mountable – hand operated
- Galvanised steel frame or stainless steel option
- Spur gears – low force, low noise
- Vertical or horizontal mounting options
- Three or four anchor points spread for stability
- Automatic brake
- Dis-engageable drum
- Long crank handle for maximum force
- Flexible rope fastener
- Suitable for lifting and traction

Hand Lever Winch - TLV

- Capacity 800 – 3,200 kg
- Manufactured from high resistance aluminium which makes it light and easy to handle
- Heavy duty tool suitable for tough working conditions
- Easy maintenance, suitable for all outdoor purposes.
- 3 sizes available: 800 kg, 1,600 kg and 3,200 kg
- Complies with the current European safety regulations
- Delivered with a 20 m rope, with a hook fitted to one end
- Suitable for lifting and pulling loads over long distances
Tirlift Pulling & Lifting Models

Standard Features
- Capacity 125 – 990 kg
- 1 or 2 speeds
- Motor and electrics IP55
- Power supply 380 – 400 V/3 ph/50 Hz
- Low voltage control 48 V

Options
- Pendant, wall-mounted and radio controls
- Limit switches via cams mounted on the drum outlet
- Speed controls
- Grooved drum
- Travel limit switches.
- Electronic load limiter
- Single phase models
- Thermal protection
- Short or long drum length
- Rope diameter 5 – 7 mm
- Rope length up to 60 m
- Many directions for wire rope outlets from the drum

Types of use:

TEC Electric Winches for Pulling & Lifting

Standard Features
- Capacity 300 – 7500 kg
- 230/400 V – 50 Hz 3-phase motor
- Low voltage electromagnetic brake with automatic take-up of wear
- IP 54 protection for the switchgear (cabinet and motor)
- Emergency stop pushbutton box on a 3 metre long spiral cable
- ON/OFF contactor.
- 24 V low voltage transformer

Options
- 2 speed or variable speed motor
- Special drum length
- Pendant, wall-mounted and radio controls
- Upper and lower travel limit switches
- Cable press roller / slack cable detection
- Electronic load limiter
- Thermal cutout circuit-breaker
- Primary down gearing by an oil bath reduction box
- Secondary down gearing by gear under a cover (except for the T.E.C 1)
- Modular design chassis amenable for changes (for instance a multiple choice of exits to lead out the cable from the drum)

Examples of use:

Types of use:

Examples of use:
I Beam Trolleys

**Manual I Beam Trolley - CHD**

- Capacity 250 – 10,000 kg
- Can be used with any type of lifting equipment fitted with a hook
- Adjustable side plates to suit different I-beam sizes/widths
- Standard range suits I Beams 50 – 310 mm wide
- Travel is achieved by push/pull movement
- Manufactured in high resistance steel
- Rollers are shaped to run on all types of steel monorails

**Hand Chain Drive Model - CHDD**

- Capacity 1,000 – 10,000 kg
- Standard range suits I Beams 65 – 310 mm
- Hand chain 0.5 m above ground level
- Drive chain and drive wheels
- To suit radius of curvature from 0.65 to 2.0 m
- CHRD model also available for capacities 12,500 – 20,000 kg

**Electric Travel Model - CHV**

- Variable travel speed 5 – 20 m/min
- 4 rubber stops
- IP55, class F motor protection standard
- Low voltage control

**3 Standard Models**

- CHV 10: 250 – 1,000 kg
- CHV 20: 1000 – 2,000 kg
- CHV 30: 2000 – 3,200 kg

**Options**

- Full stainless steel construction
- ATEX certified
- Spark resistant
- Installation, testing, certification
- Hoists built in or hook suspended