MORE THAN 150 YEARS OF EXPERIENCE OF HANDLING WITH HOOKS

- Electric winches and hoists
- Manual winches and hoists
- Trolleys and accessories
- Jib cranes and travelling cranes
- Electronic devices

VERUNDE
LIFTING EQUIPMENT

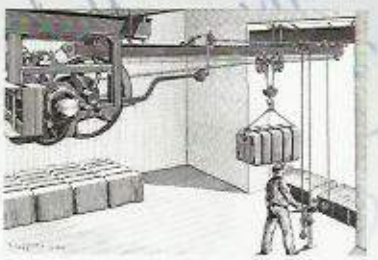
products catalog

The story of a dedicated business

Founded in 1858, VERLINDE offered the French Navy and army engineering corps a revolutionary "endless screw hoist".

In 1918, with electrification in its early days, VERLINDE was the first French contructor to design and market electrically powered winches and hoists.

Set up in the central region of France, VERLINDE is France's leading maker and exporter of hoisting and handling equipment.



Each product bearing the VERLINDE brand is the outcome of production facilities that are constantly improved and adapted to cutting-edge design techniques.

The materials and components used for the manufacture of our products are subjected to the most stringent checks.

At its various production plants, VERLINDE mass produces wire rope, chain, belt electric winches, together with travelling crane components.

A high performance production facility

Lifting operations specialist
60 to 250,000 kg

Sales agents well-acquainted with hoisting techniques analyse the problems set by each installation project (10 agencies in France and other agencies and commercial operations in over 55 countries throughout the world).
A rapid answer to your problems : our sales agents can respond immediately to any request for standard equipment, whilst for more specialised queries, our Engineering Service will respond very rapidly.
Rush, one-off deliveries : the planning schedule is a key instrument in our activity - our plants are organised to meet out-of- the-ordinary requests.

The following commercial services are also at your disposal :

VERLINDE DISTRIBUTION

This Verlinde SA department is exclusiveley dedicated to our network of dealers :
- Specialist sales engineers
- A wide range of distribution products available from stock, off-the-shelf.
- Express delivery

VERLINDE TECHNOLOGIES Ex

This VERLINDE SA department offers you made-to-measure hoisting solutions :
- Hoisting units built to your specifications.
- A wide range of explosion-proof and spark-proof hoisting equipment.
- Special hoists : EDF type (Nuclear Power Plant), Renault, PSA,...

EUROPONT VERLINDE

A network of crane builders - EUROPONT - of which Verlinde handles needs in Belgium and Holland.

www.europont.com

STAGEMAKER

This department works exclusiveley on sales of handling systems meeting the needs of the theatre and scenic arts (show business) industry.

www.stagemaker.com

Commercial sales brochures for Verlinde technologies, Europont and Stagemaker are also available. Refer to page 67.

VERLINDE
SERVICE APRES-VENTE

The Verlinde national After-Sales Service network

VERLINDE-approved specialists can install your equipment, draw up your maintenance contracts and refurbish your équipement.

› **VERLINDE After-Sales technicians** are fully familiar with your hoist systems and therefore can be relied upon for any work that is needed on your fleet of equipment.

› **The After Sales agencies** offer the following services :

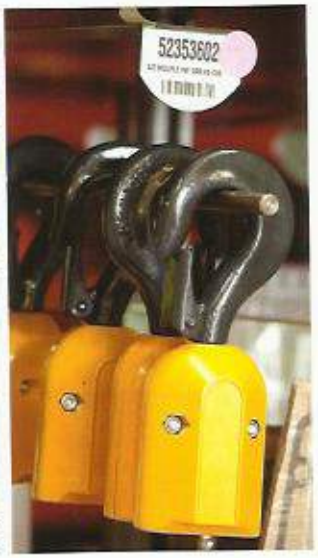
- Supply and replacement of genuine constructor spare parts (all makes).
- Supply, installation and commissioning of hoisting systems.
- Supply and installation of roller paths and electrification systems.
- Express customer support.
- Regular inspections.
- Maintenance contracts (preventive, corrective or sceduled).
- Bringing into compliance.
- Upgrading.
- Training.
- Management of your fleet.

www.savverlinde.com

VERLINDE
SPARE PARTS CENTER

Verlinde spare parts centre

The VERLINDE After Sales Centre offers the services of a team of technical advisers, a stock of very rapidly available spares for all our products, genuine VERLINDE and UNELEC spares (for other brand on request) for your older hoist systems.



VERLINDE
TRAINING CENTER

Verlinde training centre

Our training centre offers theoretical and practical courses on our products backed by recyling sessions on changing hoisting system technologies (automatic operations, on-board electronics, remote control, inverter drive,...).

Information on the After Sales network can be found in VERLINDE brochures.
Refer to page 67.

Table of Contents

Electric hoists and winches

Definition of Hoist : a device designed to lift and move heavy loads via a pulley system.

EUROCHAIN VL

STAGEMAKER

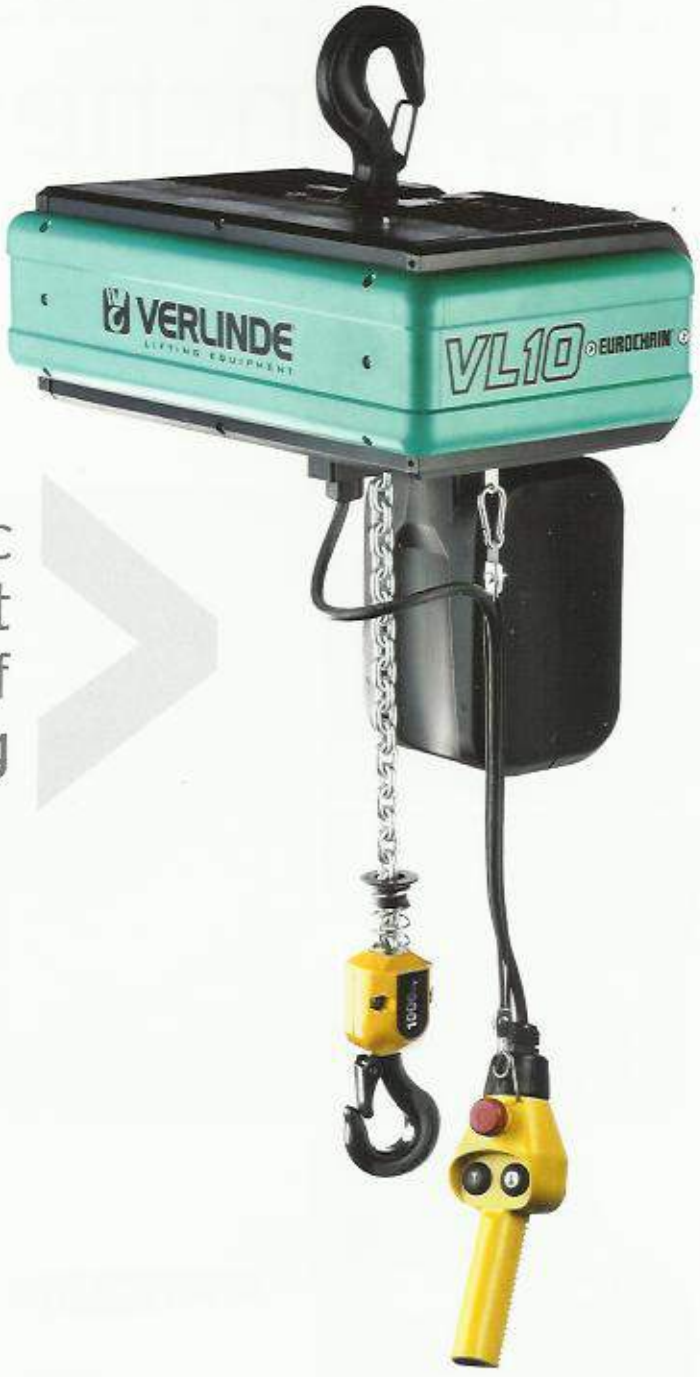
EUROBLOC VT

EUROLIFT BH

TIRLIFT

TEC

EUROCHAIN VL®



Compact electric chain hoist for loads of 60 to 10,000 kg

The EUROCHAIN VL is the answer to your small and medium capacity hoisting needs. The EUROCHAIN VL is a new line of leading-edge technology hoisting gear that is the forerunner to the hoist of the XXIst century, perfectly suited to match your industrial environment.

In addition, so as to provide the best possible solution for your hoisting and handling needs, the EUROCHAIN VL is the ideal companion for manual and electrical travel trolleys installed on monorail beams, jib cranes, overhead handling systems or overhead travelling cranes.

Technical characteristics

Of linear, compact design, thanks to its built-in control cabinet and reduction gear, the EUROCHAIN VL can adapt to each and every requirement :

› Load capacity : 60 to 10,000 kg
› Two lifting speed.
› Travelling with variable speed or manual trolley.
› Standard height of lift 3 m.
› FEM duty group 1Bm and 2 m.
› Low voltage control (48V).
› Limit switch.

The EUROCHAIN VL is designed to ensure maximum safety to the user (standard equipment) :

› On/off control on pushbutton box.
› Torque limiter.
› Lifting movement disc brake.
› Variable speed for travel.
› Electric safety upper and lower limit switch.
› Compliance with EC directive concerning machines.

Made-to-measure configurations

- Fixed, suspended by hook.

- Hooked or coupled to a travel movement trolley actuated by pushing or chain.

- Hooked or coupled to a variable speed powered handling trolley.

› A manual or electric-powered trolley hooked to Eurosystem profile.

› Push button on Digichain manipulator.

› Coupled to a powered short heedroom trolley.

› Coupled to a powered trolley mounted of bogies.

EUROCHAIN VL®

Options available

EUROMOTE radio remote control

Gear limit switch

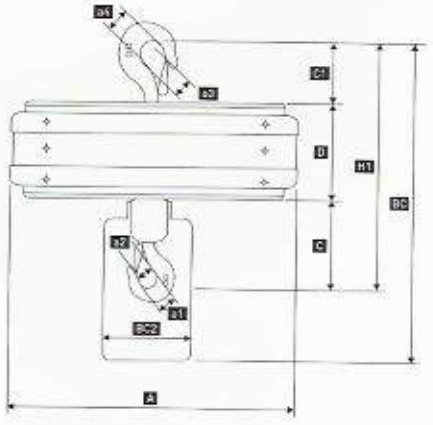
Variable lifting speed

Double brakes

THE EUROCHAIN VL can be equipped with many options, designed to adapt to specific installation configurations :

- Non-standard power supply
- Time counter.
- Radio remote control.
- IP55 protection of travel movement.
- Limitherme temperature-rise limiter on hoist motor.
- Travel limit switch.
- Bogey mounted trolley.
- Short headroom trolley.
- Twinned hoist for simultaneous hoisting tasks.
- Stainless steel hoisting hook and chain.
- Self-libricated chain.
- Pushbutton on DIGICHAIN manipuator.
- Roof for protection from rain.
- Hoist complying with standard VBG-C1.
- EX explosion proof hoist standard ATEX and Hoist ZONE 22.
- Gear limit switch.
- Double brakes.
- Encoding bearing on hoist load wheel...

Made-to-measure configurations



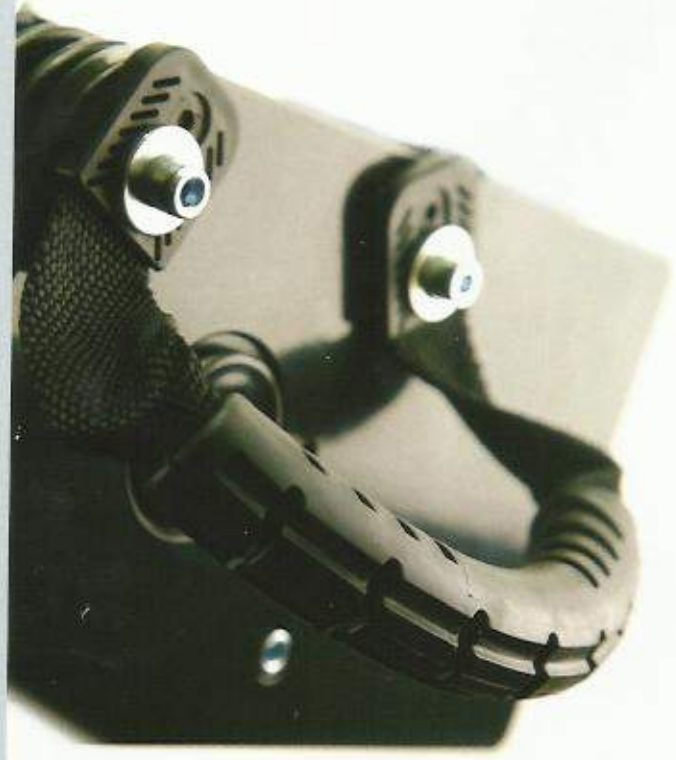
Type	Dimensions in mm																			Weight (kg)	
	A	B	B1		BC	BC1	BC2	C		C1	D	H1		a1		a2		a3	a4		
Number of falls			1	2				1	2			1	2	1	2	1	2			1 fall	2 falls
VL1	308	215	68	83	272	308	120	127	151	73	110	370	394	24	24	30	30	24	30	14	15
VL5	428	251	91	112	455	300	170	137	183	89	140	366	416	30	38	18	22	26	38	27	30
VL10	510	316	116	145	575	405	160	163	448	110	175	448	509	36	45	22	35	29	43	55	60
VL 16/20	518	351	147	196	774	457	300	277	377	153	195	654	765	48	56	43	47	57	53	110	125

Refer to sales information on our EX ATEX ranges in VERLINDE TECHNOLOGIES sales brochures.
Refer to page 67.


500 kg

STAGEMAKER

Industrial chain type electric hoist specially adapted to "show-business" applications for loads of **125 to 5,000 kg.**



The STAGEMAKER® COMPACT is specially adapted for handling stage and theatre props ; it enables loudspeaker, lighting and stage props etc... to be positioned with precision and total safety. The STAGEMAKER® COMPACT is an EC-certified chain type electric hoist complying with the North American CSA standard. The equipment, options, compact design and constant adaptation (R & D, cooperation with the show business industry), make the STAGEMAKER® COMPACT the driving force of your shows.

Inverted position operations

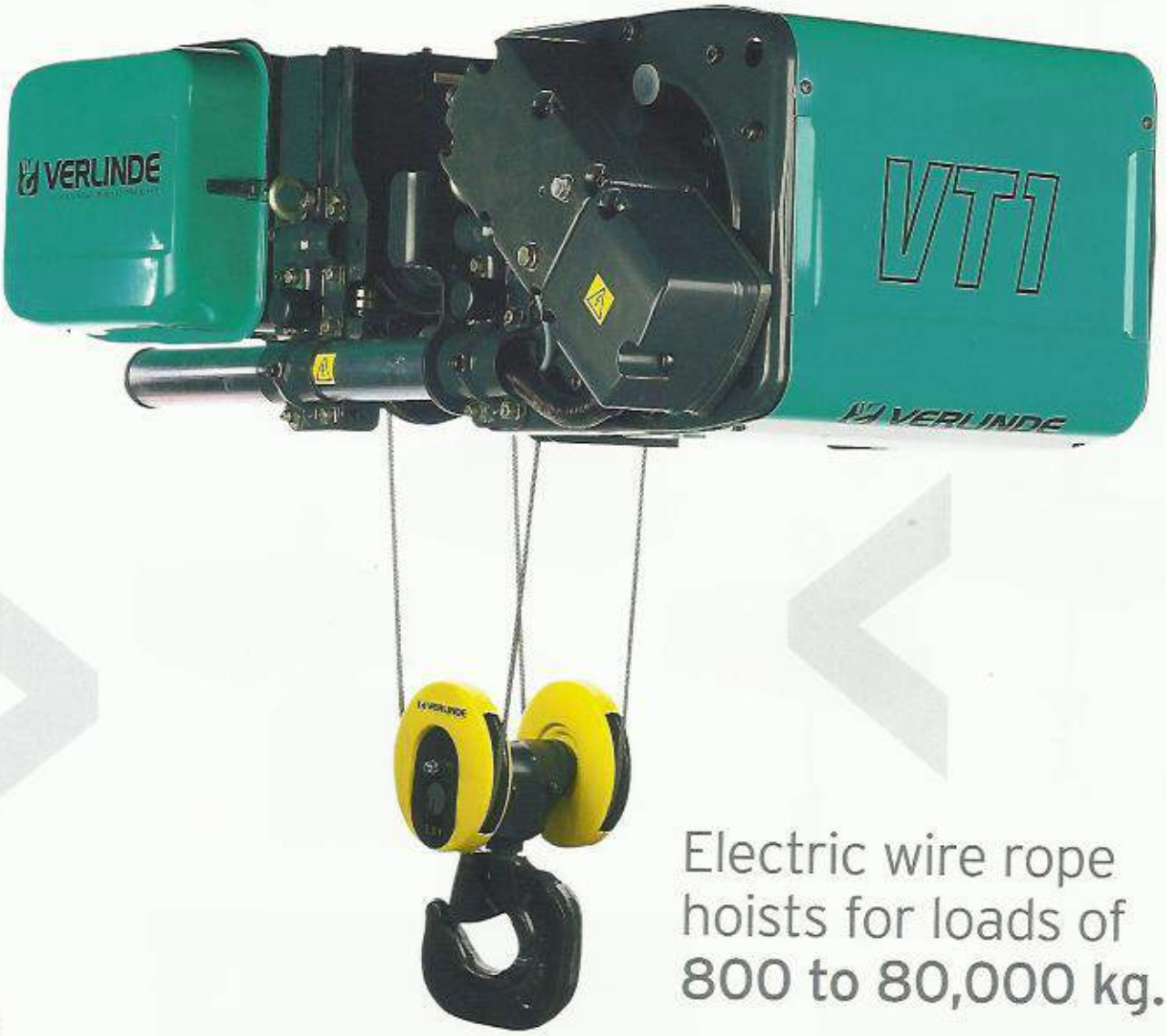
Normal position operations

Technical characteristics

- F class hoist motor.
- Load limiter for greater safety.
- Electromagnetic disc brake.
- 400v-3Ph-50Hz/460-60Hz-3Ph power supply.
- Top and bottom swivel hook.
- Compact dimensions.
- Hoist body in injected aluminium.
- Black lifting chain.
- 5 pockets on load wheels.
- Anti-jamming chain guide system CHAINFLUX®.
- Mat black paint finish (RAL 7021).
- Ergonomic carrying handles.
- Use in inverted version as standard option and in industrial version simply by moving the chain bag (SM5 and SM10).
- Large capacity chain bag.

Refer to sales information on our "Show business" ranges in the STAGEMEKER sales brochures.
Refer to page 67.

EUROBLOC® VT-VTs*



Electric wire rope hoists for loads of **800 to 80,000 kg.**

VERLINDE has always been in the vanguard for innovative ideas and designs for lifting units with hooks (over 70 patents filed in France and world-wide).

The new EUROBLOC VT electric wire rope hoist has been designed in this resolutely "avant garde" spirit – 13 patents have been approved from this design alone.

*The characteristics and equipment on this hoist are not the same as those on Eurobloc VT.

Technical characteristics

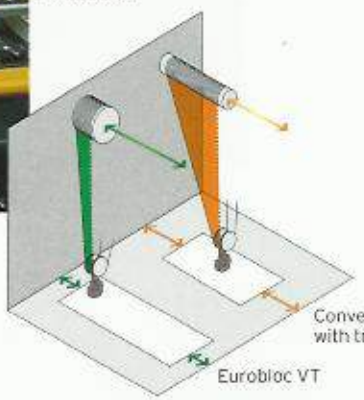
› 2-speed hoisting motor (ratio 1-6) with bimetal sensors. 60 % operating factor.
› Maintenance-free DC disc brake.
› 4-position limit switch (up, down, high position deceleration, reversed phase protection).
› Load limiter.
› 3 to 20 m/min variable speed travelling motor.
› Electrical cabinet with low voltage transformer and switchgear. Safety on/off.
› Standard 380V/400V/415V/50Hz, 440V/460V/60Hz power supply.
› IP55 / Class F protection system for motors.
› Tropicalised for travelling and lifting.
› Cable guide for difficult environments.
› Time counter.

MT2, supervisor unit (optional).

Advantages

› Virtual vertical lift.
› Compact dimensions.
› Dimension "C" is compact to optimise hoisting height as much as possible.
› Greater accuracy in moving loads, thanks to the variable travel speed (preventing the load from swinging).
› Minimum approach distances.

Short "C" dimension.



Conventional hoist with traditional design

Eurobloc VT

Options available

- Higher travelling speeds.
- Radio remote control
- MT2 monitor
- Load limiter with 2 or 3 thresholds.
- Special supply voltage.
- Load display.
- Explosion proof hoist.

Load display

Refer to sales information on our EX ATEX ranges in VERLINDE TECHNOLOGIES sales brochures.
Refer to page 67.

Made-to-measure configurations

- Foot mounted or overhead mounted.

- Monorail trolley with standard headroom (HPN).

- Double girder trolley (fixed or suspended).

› Monorail trolley with short headroom (HPR).

› Eurobloc VTs

EUROBLOC® VT10-11

Open electric winches for loads of **32,000 to 250,000 kg.**

The EUROBLOC VT family has now been widened to include the VT10 and 11. This line of open winches offers technical solutions to meet your requirements for :

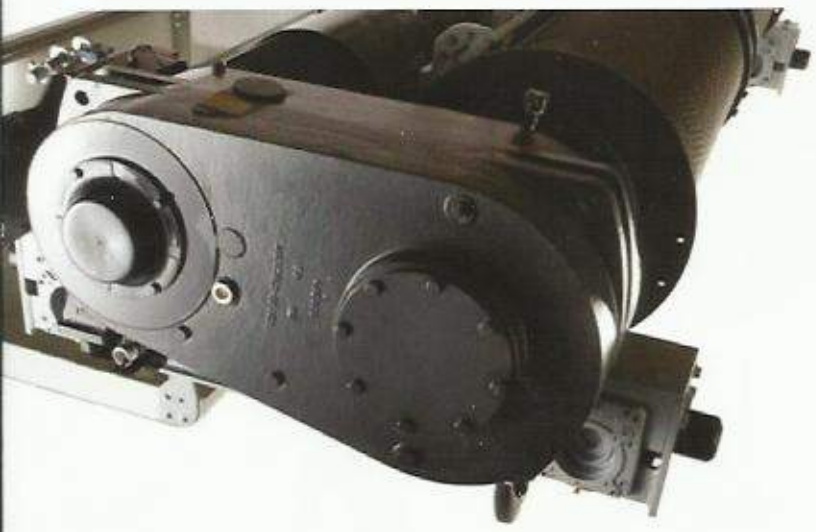
› A greater hoist capacity (32 to 160 tons).
› Lifting height (up to 129 m).
› Utilisation group (ISO classification up to M6).
› Hoist speed.
› Speed control (speed variation).

Technical characteristics

› High performance hoist motor.
› Very high safety level of hoist brake.
› Smart supervision of brake by the variator with slip or jamming detection feature.
› Double safety system for end of travel lifting (limit switches with detection of top and bottom position together with a limit switch tripped by the rope lead-off).
› Travel limit switch as standard.
› Overload protection.
› Winch supervision with Monitor system.
› IP55 and IP66 components.
› Hoist motor insulation class F/H, IP55 protection, thermal protection.
› Epoxy paint (thickness 120µm).

Advantages

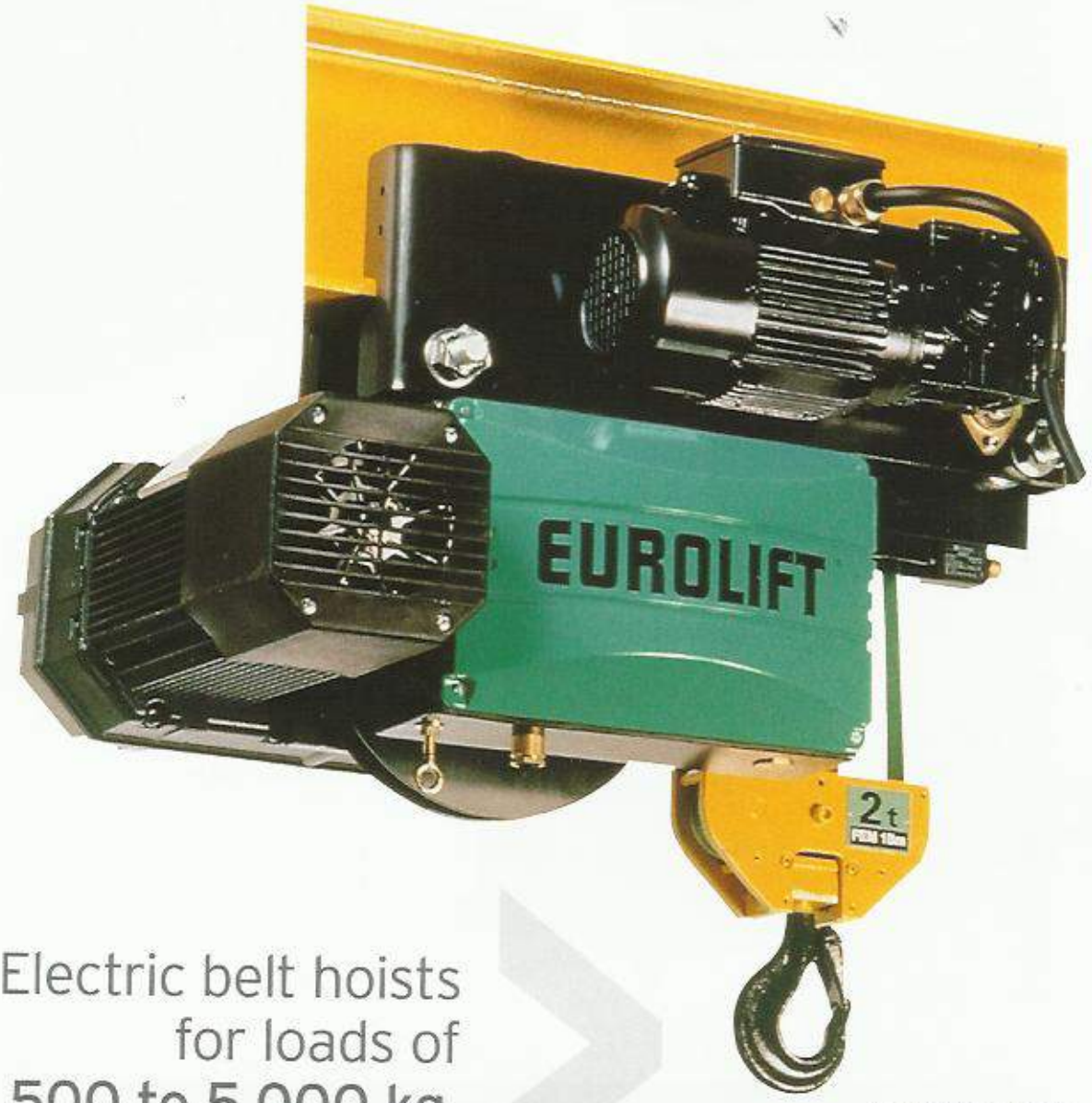
- Rapid and variable hoisting speed (with closed loop variator).
- Virtual vertical lift.
- Large load capacities avoiding use of twinned hoists.
- A standardised maintenance platform available as option.
- Optimal positioning of rollers on trolley enable best distribution of load on bearing structures.
- An innovative rope guide system reduces stress on the wire rope and lengthens life span.
- The large diameter drum provides :
  - increased life span of hoist rope.
  - reduction in rail widths and approach distances to optimise the working area of the winch.



Options available

- Service platform.
- Double brakes.
- Wire rope press roller.

EUROLIFT BH®



Electric belt hoists for loads of 500 to 5,000 kg.

EUROLIFT BH
Trolley version with worm gear box travelling machinery

The EUROLIFT BH electric belt hoist meets your needs for hoisting power with the strictest levels of cleanliness. The EUROLIFT BH is a hoist complying with EC European standards, offering you the lifting power and robustness of a product designed for industrial duty combined with 100% clean operation to meet your most stringent requirements with regard to hygiene, handling of foodstuffs and chemical products and "white room" conditions, ...

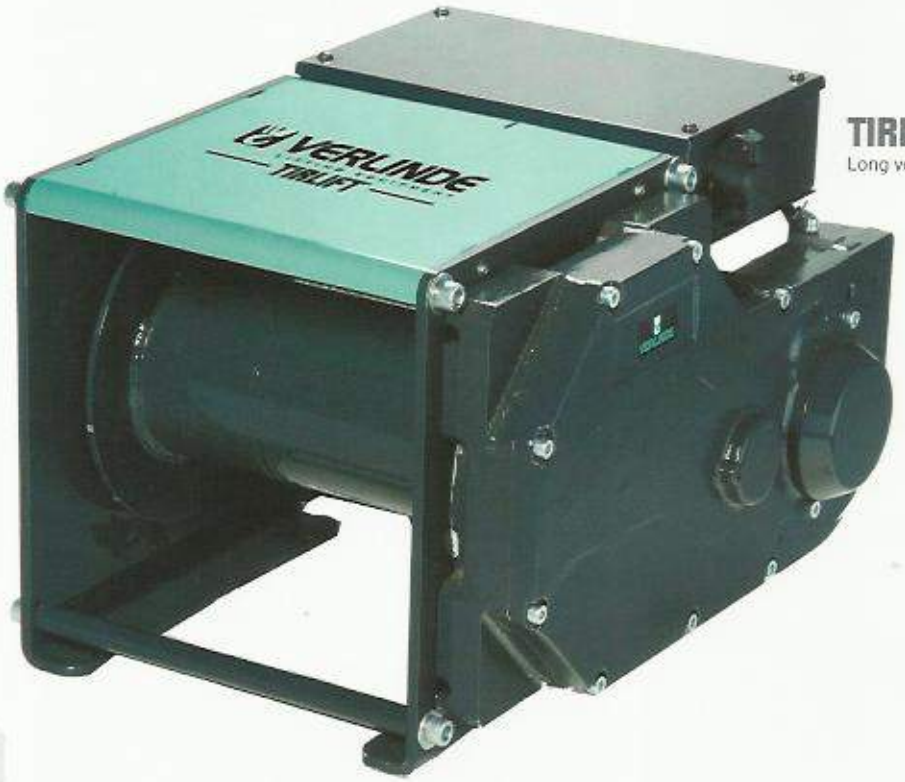
Technical characteristics

- Anticorrosion product with high strength rot-proof belt.
- Exceptionally little loss of headroom, enabling the EUROLIFT BH to adapt to all your installation configurations.
- Lift motor with two mechanically variable speeds and two speed travel movement motor (complying with standard EC 34.1/IEC 34.2, IP 55 protection and insulation F) combined with perfectly sealed reduction gearing enabling your loads to be shifted silently with great precision.
- A high security belt guide, electric hoisting limit switch and electrical load limiter as standard equipment, ensuring you, as user, maximum safety in every situation.
- Variable speed travel motor for precise positioning of loads.
- An option of this lifting unit offers greater protection with stainless steel or galvanised elements and an EX spark proof and/or explosion proof version (ATEX standard) is also available.

EUROLIFT BH
Enhanced protection version and travel trolley with worm gear box.

Refer to sales information on our EX ATEX ranges in VERLINDE TECHNOLOGIES technical sales brochures. Refer to page 67.

TIRLIFT®



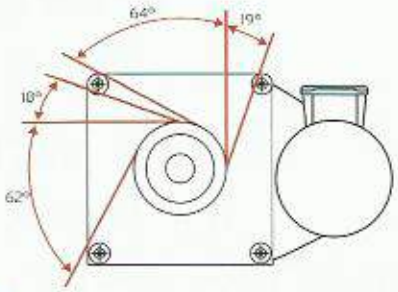
TIRLIFT
Long version TL

TIRLIFT
Short version TC

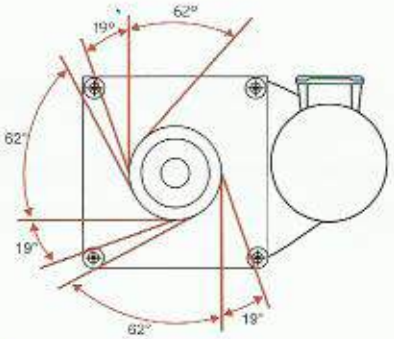
Electric winch for loads of **125 to 990 kg**

This line of all-purpose electric winches for lifting and traction adapt perfectly to all your needs (wide load range, numerous options).
They are designed for the lifting of loads of 125 kg to 990 kg. Compliance with the EC directive concerning machines.

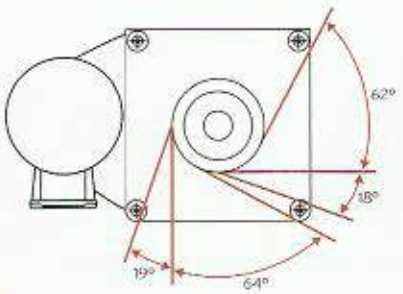
Winch positions and rope outlets



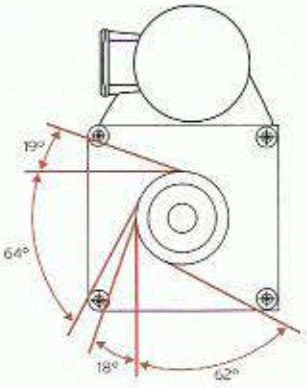
Outlet A
Foot mounted.
Rope outlet on left side (rope fixed to right of drum, on gear side).



Outlet B
Foot mounted.
Rope outlet on right side (rope fixed to left of drum, on bearing side).



Outlet C
Version mounted on ceiling.
Rope outlet on right side (rope fixed to right of drum, on gear side).



Outlet D
Wall-mounted version.
Rope outlet on left side (rope fixed to left of drum, on bearing side).

Technical characteristics

The TIRLIFT type TL and TC electric winches offer as standard :

- A drum designed for 5 to 7 mm wire ropes depending on loads.
- IP55 type protection of the switchgear (cabinet and motor).
- A wide range of lift braking motors complying with class F insulation.
- A frame of modular and open-ended design, permitting for instance multiple cable exit directions from the drum.
- Tri-phase or single phase available.

TEC®

Electric winch for loads of 600 to 7,500 kg

The ideal solution for traction and hoisting loads of up to 7,5 tons. This line of electric winches will perfectly match your needs.
Furthermore, its design displays qualities of discretion, since it is highly compact, and calls for very little maintenance. TEC electric winches comply with the EC directive concerning machines.

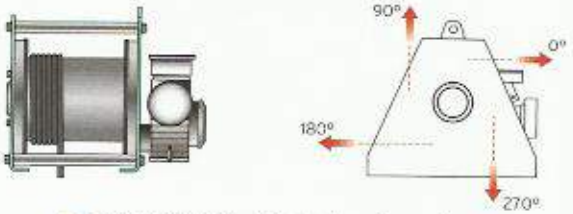
Technical characteristics

- A frame of modular and open-ended design, permitting for instance multiple cable exit directions from the drum.
- 230 / 400 V / 3 Ph / 50Hz power supply.
- Control voltage 24 V switchgear. Thermic control circuit breaker
- Electric cabinet to IP 55.
- Handset with emergency stop on 3m sprially wound cable.

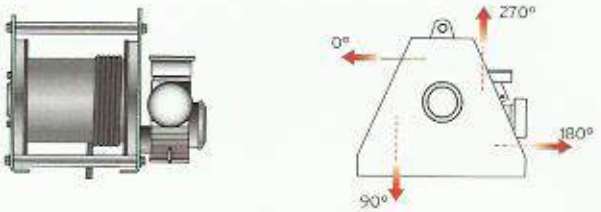
Options available :

- Limit switch.
- Electronic load limiter.
- Grooved drum.
- Variable speed winch.
- Radio remote control.

Rope exits

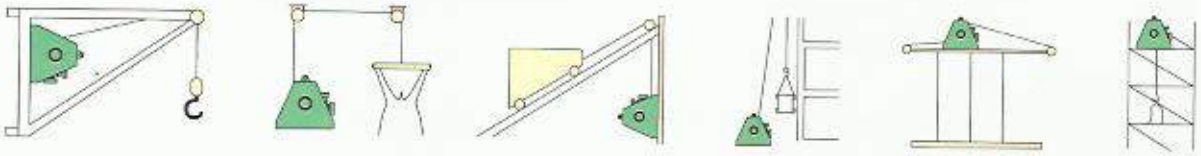


Right exit (rope) - Standard configuration



Left exit (rope) - Option

Examples of uses



Manual hoists and winches

Definition of winch : horizontal cylinder around which a rope or wire rope used to lift or pull a load is wound up.

VHR

ZHR

PLV

TLV

MV and **ME**

VHR®

Hand chain hoist for loads of 250 to 5,000 kg

Eye-pleasing, compact and efficient, the V.H.R. is tested to all currently applicable standards.

Technical characteristics

- Machined chain sprocket and gears provide smoother, more efficient operation.
- 3 meters standard lift. Hand chain is 0.5 meters less than lift chain. Non-standard lifts available.
- High strength grade 80 alloy steel load chain with galvanized finish for corrosion resistance (comply with EN 818, safety factor 4).
- VHR's compact design offers safety together with reduced weight. Ideal for construction and maintenance applications.
- Rugged construction featuring steel gearcase and handwheel cover.
- Hooks are alloy steel, heat treated and equipped with hook latches and inspection points.

VHR
Overhung with trolley operated by push action on load type CHD.

VHR Ex

Overhung with travel trolley backed by handwheel and hand chain operation type CHDD (Spark proof version of hoist and trolley).

Options available

A wide range of options is available for this hoist :

- VHR with stainless steel load chain.
- Chain bag.
- VHR with trolley operated by push action on load.
- VHR with short headroom trolley (HPR).
- VHR version Ex - ATEX.
- VHR Ex with Ex short headroom trolley (HPR).

VHR Ex

Hand chain hoist in sparkproof version

ZHR®

"Heavy duty use" type hand chain block for loads of 500 to 20,000 kg

Technical characteristics

› Machined chain sprocket and gears.
› Hoist mechanism with 4 bearings.
› Overload limiter as standard.
› Heavy duty, galvanized finish hoisting chain.
› Electrogalvanized hand chain.
› ISO hooks with safety latches.
› WESTON type lifting brake.
› Offshore high resistance powder coating (220µ).

Options available

A wide range of options is available for the ZHR :
› Chain bag.
› Stainless steel load chain.
› ZHR with short headroom trolley (HPR).

PLV®

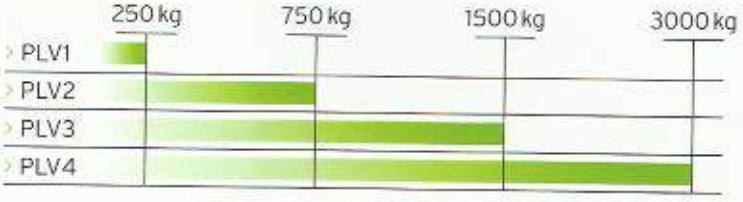
Hand lever block for loads of 250 to 3,000 kg

The PLV is designed to lift, pull or drag loads. Its has application in every branch of industry through the ease with which it can be used and the many services it can provide at all times in the workshop, on the worksite, ... It is indispensable wherever space and headroom are at a premium.

Technical characteristics

- The 4 models are attractive, robust, compact, light and highly manoeurable.
- The PLV can be oriented in any direction, the operator can select the lever position enabling him the greatest possible operational convenience.
- PLV lever block are highly compact, thanks to the use of special steel.
- The hand lever block is a new concept combining aesthetic appeal with reliability.
- Chromium-plated hoist and lever.
- Strengthened housing offers good protection for mechanisms.
- The hand lever block offers a high level of safety with limited weight and routine maintenance.
- Unclutching of chain when under no load.
- The hand lever block was tested to approved standards, a test certificate and guarantee are supplied.
- Heavy duty steel alloy hoisting chain.
- Swivellable hooks with safety latches.

Load capacity



TLV®

Manual lever winch for loads of 800 to 3,200 kg

The T.L.V. winch is designed to lift and pull loads over long distances.

Technical characteristics

Built in high strength aluminium, the rugged design of the T.L.V. makes it a traction/lifting winch capable of withstanding the most severe conditions of use.

Load capacity

MV and ME

Endless screw winch and geared winch 150 to 3,000 kg

Winch type MV

Winch type ME

Technical characteristics

- Encased mechanical parts.
- Automatic brake.
- Adjustable and dismountable crank.
- 2 securing planes horizontal or vertical (according to model).
- Can be unclutched when off-load, whilst impossible to unclutch under load.
- Highly rugged design, thanks to the exceptional rigidity of the frame.
- Mechanical parts protected by cataphoresis.

Type ME mechanism.

Unclutchable drum.

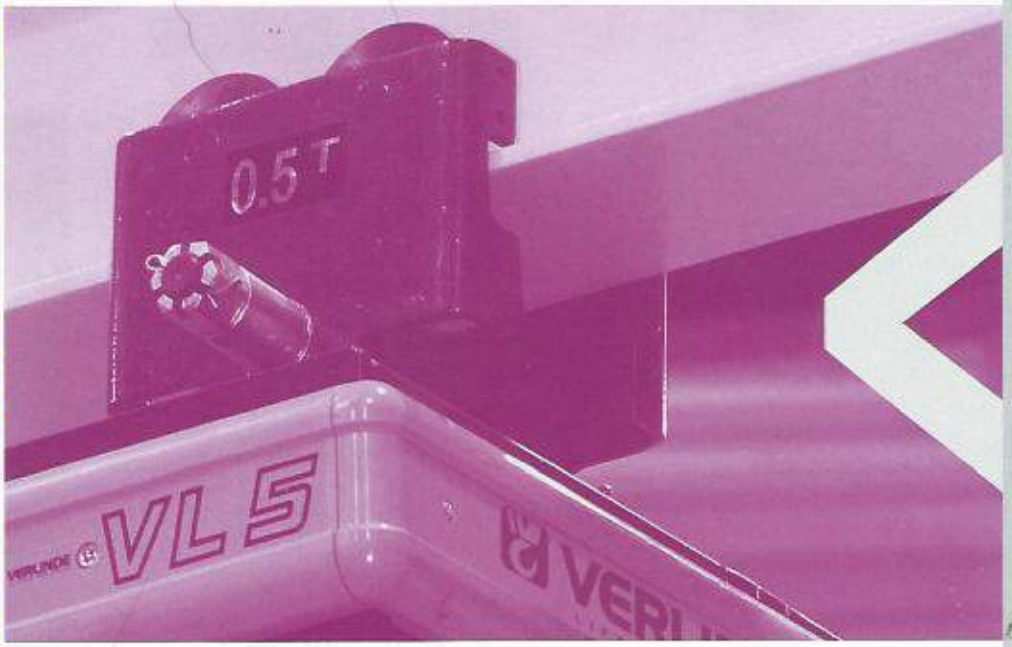
Setting button.

Type MV mechanism.

Model	ME1	ME2	ME3	ME4	ME5	MV1	MV2	MV3	MV4	MV5	MV6
First layer lifting capacity (kg)	150	300	500	1,000	2,000	250	500	1,000	1,500	2,000	3,000
Total length of winding (m)	19	38	17	30	25	15	17	30	23	17	10
Maximum number of layers	6	6	4	4	3	4	4	4	3	2	1
Effort required on handle (daN)	20	12,5	19	14,5	16,5	11	14	14	14	14,5	16
Weight without cable (kg)	5,6	15	15	44	83	7,5	12	37,5	45	70	120
Maximum and minimum operations temperature	- 20°C à + 40°C										

Trolleys and accessories

Definition of Trolley : 4-wheeled carriage used to move loads.



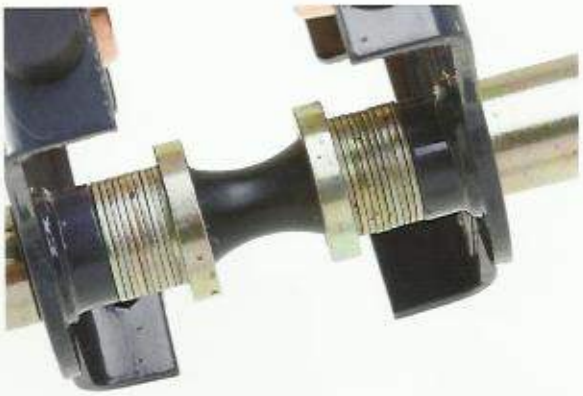
CHD-CHDD
CHV
PRD
PRV
PAP
PEV
EQUIBLOC
LIMITER
PAL

CHD-CHDD®

Manual travel trolley for loads of 250 to 20,000 kg

CHD
Travel trolley operated by push action on load.

CHDD
Travel trolley operated by hand wheel and hand chain.



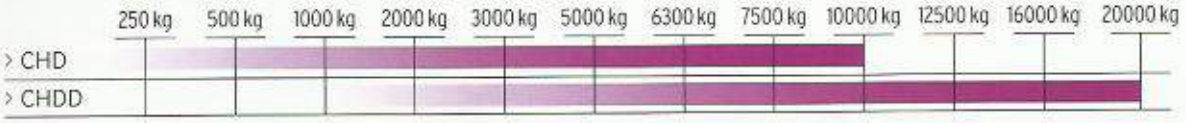
Technical characteristics

- The distance between flanges can be adjusted as required.
- Travel movement is imparted either by pushing, or by handwheel and chain.
- Delivered ready to assemble in individual boxes.

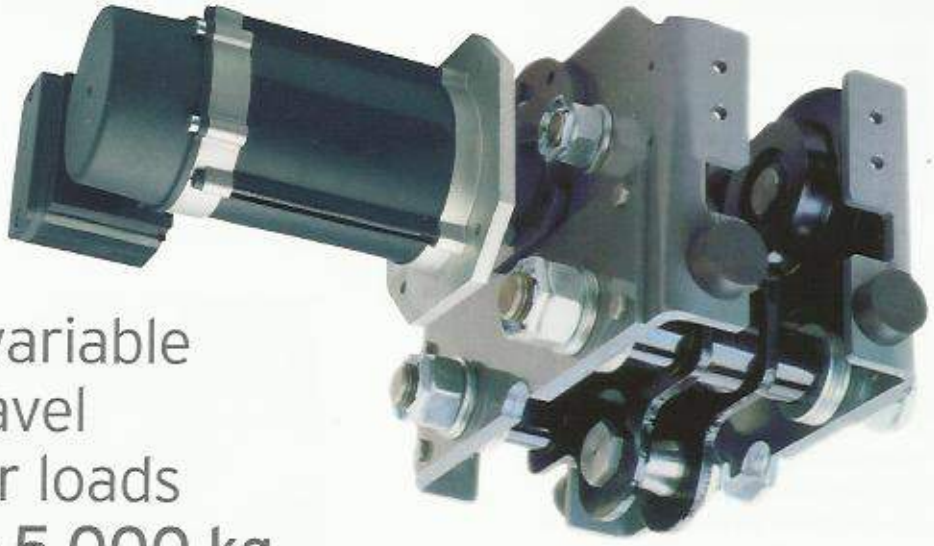
Options available

- Stainless steel load chain
- Ex version with ATEX markings.
- Chrome-plated version of trolley available.

Load capacity



CHV®



Electric variable speed travel trolley for loads of **125 to 5,000 kg.**

Designed to roll on all profiles type IPN or IPE, HEA or HEB, both straight or curved, the VERLINDE CHV electric trolley enables a hoist with a top hook or EUROCHAIN hoist coupling systems to be hung directly.

Technical characteristics

- The CHV enables any type of hoisting device to be hung.
- Variable travel movement speed 5 to 20 m/min.
- Gap between flanges adjustable enabling it to be adapted to all types of IPN, IPE, HEA or HEB straight or curved profiles.
- 4 rubber stops
- Trolley complete, ready to connect up.
- IP 55, class F motor protection system.
- Low voltage electrical cabinet.

Load capacity

	125 kg	1000 kg	1250 kg	2000 kg	2500 kg	3200 kg	4050 kg	5000 kg
CHV10	■	■						
CHV20			■	■				
CHV30					■	■		
CHV50							■	■

Options available

› Worm gear box to obtain reduced travel movement speed (5-10 m/min and 10-2.5 m/min).
› Two-speed travel movement (20-5 m/min).
› Low variable speed (3-10 m/min).
› Very low voltage push button box, 1 or 2 speeds and control transformer.
› Limit switch with 1 or 2 step.
› Other three-phase types of power supply.
› Version with hooking crosshead.

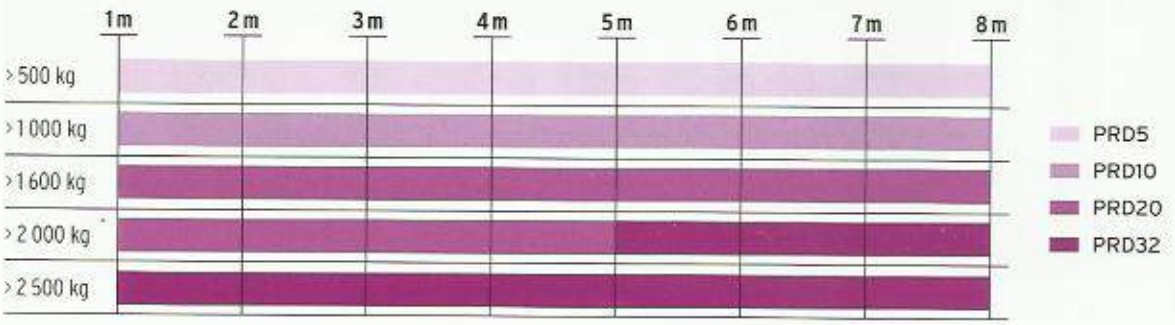
PRD®

Trolleys designed for hand-operated articulated sliding girders system for loads of **500 to 2.500 kg.**

The ideal solution for hand-operated articulated sliding girders with spans of up to 8 metres. The PRD offers a low-cost solution for moving loads of 500 to 2,500 kg by pushing them along any type of monorail type steel section.

Example of use of PRD trolley.

Span and load capacities

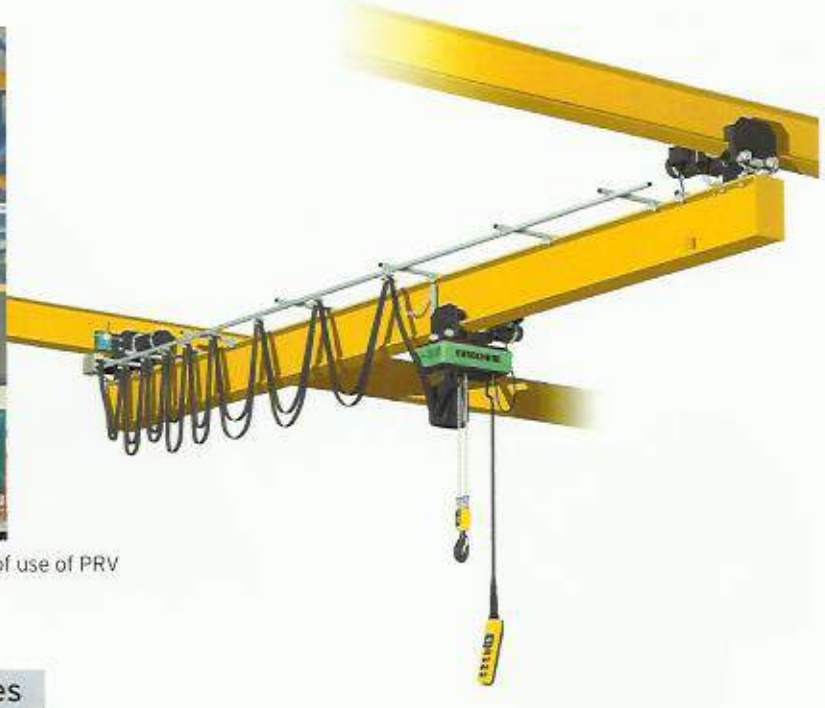


PRV®

Trolleys designed for electrically powered articulated sliding girders for loads of **250 to 2.000 kg.**

The ideal solution for electrically-powered articulated sliding girders with spans of up to 12 metres. The PRD offers a low-cost solution for the powered shifting of loads of 250 to 2,000 kg along any type of monorail.

Example of use of PRV trolley.

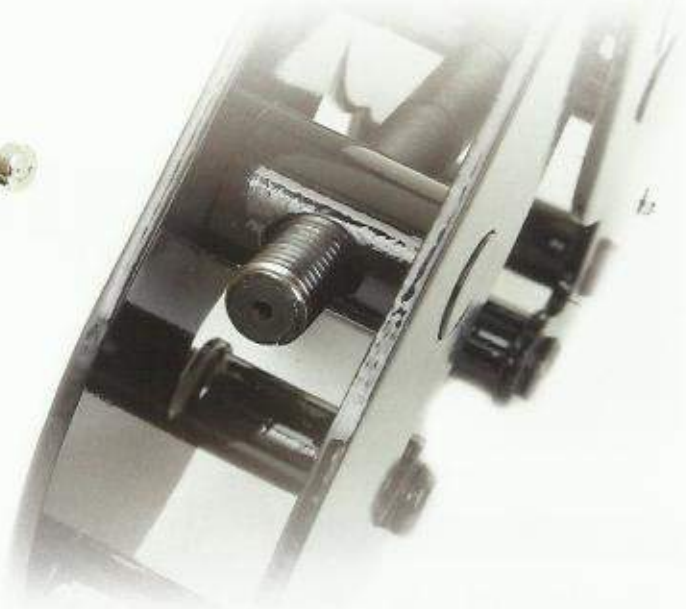


Span and load capacities

PAP®

Girder clamp for loads of **1,000 to 5,000 kg.**

The PAP enables a lifting device to be hooked in fixed position from a girder, an attachment point for hoisting profiles, installation of mechanical limit switch (stop) at low cost... Its applications are limited only by your imagination !



Model	Capacity (kg)	Distance (mm)	Weight (kg)
PAP 1	1 000	75 - 230	3,9
PAP 2	2 000	75 - 230	5
PAP 3	3 000	80 - 316	9,5
PAP 5	5 000	90 - 306	11,3

PEV®

Electronic force gauges with digital readout for loads of **200 to 32,000 kg.**

VERLINDE offers a comprehensive range of compact electronic force gauges fitted with LCD or LED displays showing the load on hook in real time.

Technical characteristics

- Precision is +/- 0,1% of rated capacity.
- Standard functions : overload signal (110% of max. load), calibration.
- Reset, Total, complete deletion (except PEV 1 where "total" and "complete deletion" are options).
- Excellent legibility with large size display (LCD or LED).
- Readings are logged.
- Working temperature -20° to +60° C.
- Protection : IP 55.
- delivered with 2 shackles and top and bottom mounting hardware.
- Delivered with rechargeable batteries and charger.

Options available

- Large-sized display : 25.4 mm.5 digit LED display.
- Infra-red remote control.
- Carry case.
- Preselection of load.
- intensive use batteries.
- Stainless steel version of gauge available.
- Tropicalisation and IP 65 protection.
- Printer integrated in gauge.
- Radio link, Bluetooth or Wifi.

EQUIBLOC®

Range of load balancers for loads of 0.4 kg to 55 kg.

The EQUIBLOC frees the working area on assembly lines where a considerable number of tools have to be used and keeps effort to a minimum in workshops where heavy tools have to be used.

LIMITER®

Range of load limiters for wire rope and chain hoists for loads from **60 to 37,500 kg.**

Why are load limiters needed ? Load limiters prevent accidents when the hoisted weight dangerously exceeds the rated values set by the maker or user of the equipment: it is a vital element to ensure the safety of operations personnel.

Load limiter for wire rope hoists with installation requiring no disassembly of the rope.

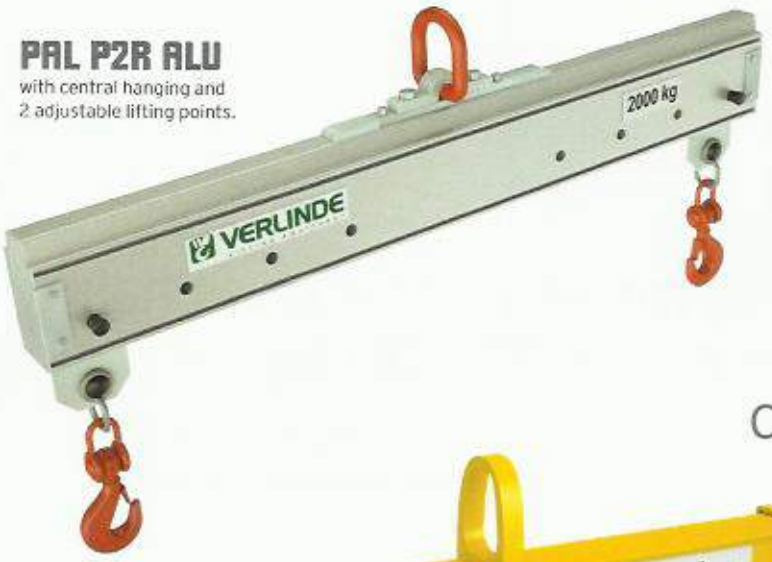
Load limiter for chain hoists.

Load limiter for wire rope hoists.

PAL

Range of lifting beams for loads of 125 to 10,000 kg.

PAL P2R ALU
with central hanging and
2 adjustable lifting points.



PAL P2F
with central hanging and
2 permanent lifting points.

PAL P2R
with central hanging and
2 adjustable lifting points.

PAL P4F
H-type central hanging and
4 permanent lifting points.

PAL P4R
"H" type with central hanging
and 4 adjustable lifting points.

Technical characteristics

- Rupture safety factor : 5.
- The PAL line is manufactured to standard NFE 52210 and classed category FEM 5.
- No load bearing welds.
- Anti-rust treatment and RAL1028 glycerine paint finish.
- Standard equipment: bow shackles, reel hooks and safety latches.
- EC certificate of compliance.
- User manual.

Options available

- "Y" type models with 3 hoisting points or or "X" type with 4 hoisting points available on request.
- Galvanized lifting beams.
- Special lifting beams with fork gripping system for pallets.
- Lifting beams for Big Bag system.
- Special aluminium lifting beams for light hoists.

Model	Capacity (kg)	Span (m)
P2F	1000 to 10000	1 to 6
P2R	1000 to 10000	0,5 to 6
P4F	1000 to 10000	1 to 4
P4R	1000 to 10000	1 to 4
P2F ALU	125 to 2000	1 to 6
P2R ALU	125 to 2000	1 to 6
P4HF ALU	125 to 2000	1 to 4
P4HR ALU	125 to 2000	1 to 4

Jib cranes, gantry cranes and travelling cranes

Jib crane. Definition : a support column with a cross-member at right angles.

EUROSYSTEM

EUROSTYLE

GANTRY CRANES

MANUALS CRANES

EUROPONT

COMPOSANTS +

EUROSYSTEM® ST

Overhead handling systems for loads of **60 to 2,000 kg**

The ideal solution for moving light loads. The EUROSYSTEM overhead handling system adapts perfectly to your site development or production process needs, offering a great many configurations.

The EUROSYSTEM can take the form of a monorail, roller paths, single-girder overhead travelling cranes, double girder overhead travelling cranes, singe or complex circuit systems, with points for changing the direction of travel, or a multi-direction turntable.

Technical characteristics

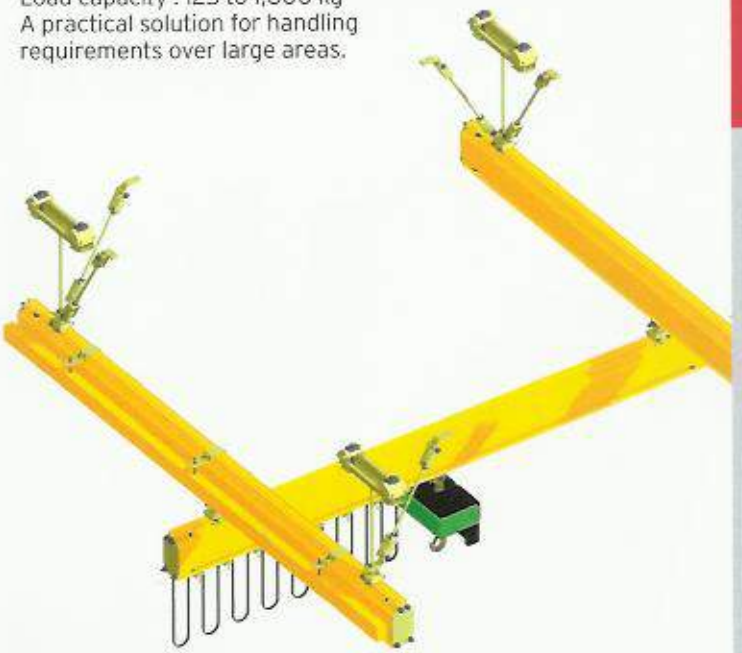
An graded range of hollow sections providing excellent headroom. The EUROSYSTEM consists of three different models, the use of which is determined by the load capacity and distance between the suspension points :

› UKA 20 : maximum capacity 250 kg
› UKA 30 : maximum capacity 1,000 kg
› UKA 40 : maximum capacity 2,000 kg

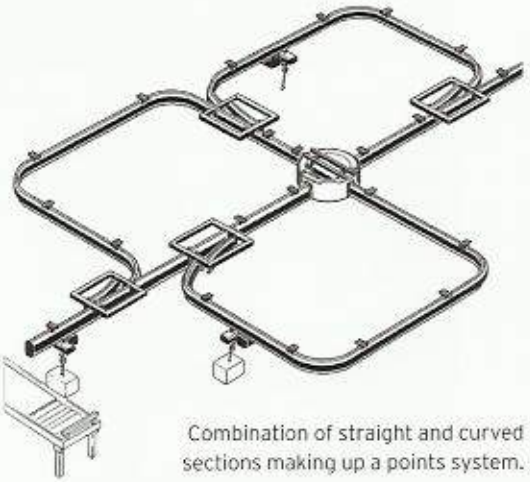
Unquestionable advantages

› The loads are easy to handle, thanks to an excellent rolling coefficient.
› The load on the bearing structure is kept to a minimum through the pendular design of the system.
› Maintenance is practically zero.
› Installations are pleasing to the eye.
› Great flexibility.
› Minimum loss of headroom.
› Many different solutions for securing the system, adaptable to any structure (I-beams, wood, concrete...).
› Installation and anchoring simply by bolting.

› **Suspended or embedded single girder travelling crane.**
Load capacity : 125 to 1,600 kg
A practical solution for handling requirements over large areas.



› **Suspended or embedded double girder travelling crane.**
Load capacity : 125 to 2,000 kg
Fir greater loads and reaches, a EUROSYSTEM twin-beam model can also be provided, to meet your lifting and handling requirement.



Combination of straight and curved sections making up a points system.

EUROSYSTEM® ALU

Aluminium hollow profile overhead handling system for loads of 60 to 2,000 kg.

The Aluminium Eurosystem represents a new generation of hollow profile handling systems. This innovative solution presents the combined advantages of conventional steel and aluminium hollow profile.

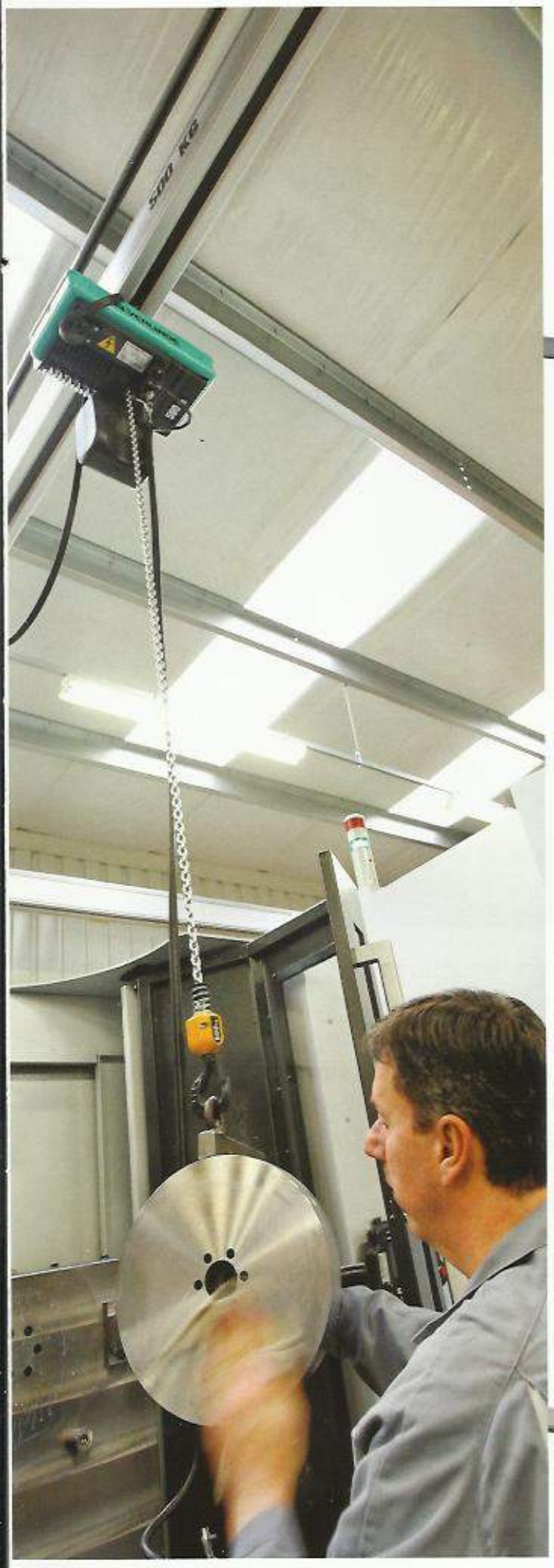
Technical characteristics

A graded range of 4 sizes of profile.
As for steel sections, the selection of the model will depend on the load capacity and the distance between the suspension points.

- AL06, 6.5 kg/m, up to 320 kg.
- AL08, 8 kg/m, up to 500 kg.
- AL06, 10.6 kg/m, up to 2,000 kg.
- AL06, 14.5 kg/m, up to 2,000 kg.

Advantages of aluminium

- **ERGONOMIC.** The lightness of the rails provides easy, effortless manipulation by the user even with heavy and unwieldy loads.
- **PRECISE.** Precision is ensured by top quality manufacturing and smooth manoeuvring.
- **ANTI -CORROSIVE TREATMENT.** The profile aluminium is anodized outside and inside.
- **ECONOMICAL.** By the reduced volume and simplification of the bearing structures, by the rapidity of assembly.
- **NEW TECHNOLOGY.** The profile was made possible by the latest cold extrusion engineering innovations and optimisation of structures.
- **PRACTICAL.** The profile is compatible with all ITEM standardised accessories.
- **LONG LIFE SPAN.** The remarkable resistance to wear is due to the anodizing treatment and to the roller material.
- **SAFETY.** The profile is guaranteed weldless.
- **NOISELESS.** The very low noise level of operation is due to the great smoothness of the rolling surface.



› Suspended or embedded single girder travelling crane.
Load capacity up to 2,000 kg.
Can be embedded to optimise lifting height.

› Options available

› Integrated electrical power supply.
› Transfer system.
› Powered travelling and/or traversing trolleys.
› Parallel power supply in profile with integrated lead.

› Suspended or embedded double girder travelling crane.
Load capacity up to 2,000 kg.
For large spans and highest loads. 3-dimensional surface coating. Limited overall height.

EUROSTYLE®

Range of manual and motorized jib cranes

Handling facilities made-to-measure for each workstation is indispensable and enables production halts caused by using the overhead travelling crane in service in the workshop to be avoided. VERLINDE offers you a wide choice of rugged, eyepleasing designs and high performance jib cranes equipped with the full range of EUROCHAIN VL, EUROBLOC VT or EUROLIFT BH hoists. Whether wall-mounted or on mast posts, jib cranes are rational and low-cost handling facilities the installation of which does not require any modifications to the building. They are compact, whilst at the same time enabling loads to be moved in every direction. They can be used in every sector of industry : foundry, boilerplating, mechanical engineering, papermaking, etc. They are the ideal companion for overhead travelling cranes covering the workshop as a whole. They increase the autonomy and efficiency of every workstation.

Technical characteristics

- All-steel design in compliance with DIN 15018 standards.
- IPE section or EUROSYSTEM hollow section jib arm, withstanding torsional stresses.
- Manual trolley with underhung hoisting tackle delivered as standard equipment on hollow section boom.
- Service temperature: -10° to +40° C.
- Presentation : shot-peened frame, primer coat and glossy yellow topcoat.
- 24-months warranty on the paintwork in accordance with Re3 check procedure.
- IP54 switchgear.

The characteristics of all our cranes (overall dimensions, weight, boom length and foundations) are indicated in our technical sheets.

Made-to-measure configurations

Wall-mounted (secured to the wall or a mast post)

Triangular design

VATS

Boom in EUROSYSTEM type hollow profile.

VAT

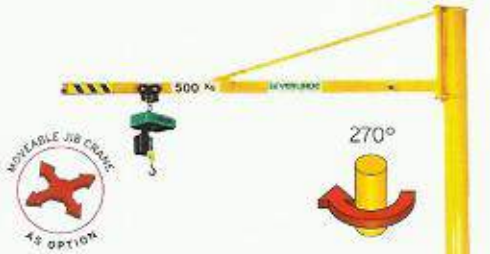
IPE section boom

Inverted design

VAI

IPE section boom

Column mounted partially slewable



Triangular design

VFTS

Boom in EUROSYSTEM type hollow profile.

VFT

IPE section boom

Inverted design

VFI

IPE section boom

Column mounted 360° slewable

Manually slewable

VFP

Electrically slewable version also available (VFM version)

IPE section boom


EUROPONT
SERE Maintenance
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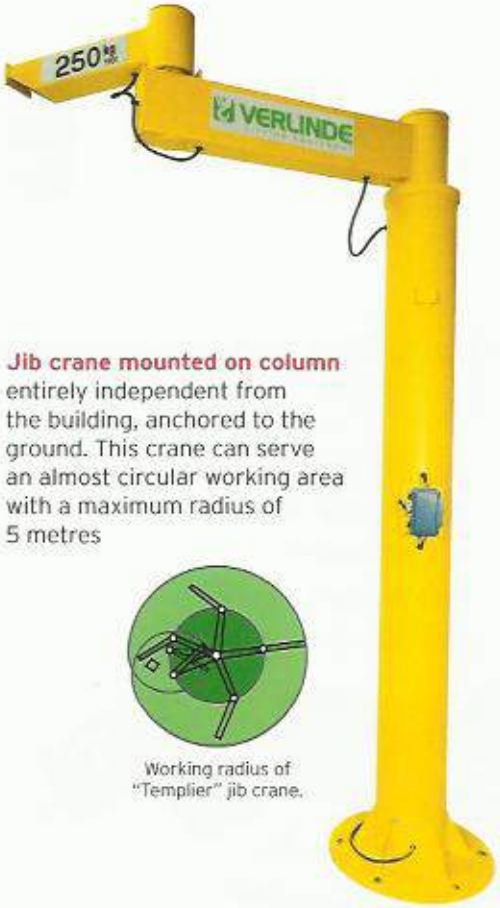
125 KG
26072419M

EUROSTYLE®



"Templier" type manual jib cranes with articulated arms

Jib crane mounted on column entirely independent from the building, anchored to the ground. This crane can serve an almost circular working area with a maximum radius of 5 metres

Working radius of "Templier" jib crane.

VERLINDE articulated crane is designed for handling loads of 50 to 1,000 kg with ease, taking up very little space in an almost circular area. Practically all the working zones afford access to the hoisting tackle mounted at the tip of the boom.
The articulated arm enables obstacles to be avoided.

Technical characteristics

- All-steel design in compliance with DIN 15018 standards.
- Service temperature : -10° to +40° C.
- IP54 switchgear.
- Presentation : shot-peened frame, primer coat and glossy yellow topcoat.

The characteristics of all our cranes (overall dimensions, weight, boom length and foundations) are indicated in our technical sheets.

Jib crane mounted on roof (secured to a ceiling or members of the structural frame of the building). This crane can serve an almost circular working area with a radius of 5 metres.

Jib crane mounted on bracket (secured to a wall or mast post). This crane serves an almost circular working area with a radius of 5 metres.

EUROSTYLE®
H_2O range

Aluminium and galvanized jib cranes for water treatment systems.

Ideal for operations in used water treatment stations or at shore sites, EUROSTYLE H2O jib cranes are easily transported and manoeuvred by one person. Furthermore, they are dismountable to be moved from one base to another.

Technical characteristics

- Aluminium dismountable jib crane, 360° slewable.
- Span adjustable to radius of 1.50 m.
- 300 or 500 kg load range (according to model).
- 3 or 4 elements make up the jib crane, very fast assembly.
- Can be easily moved about and stored using the carry bag(s).
- Slewing system is highly flexible by means of the swivel mounted in bearings.
- RAL powder-coated on anodized surface (very robust and shock-resistant).
- 2 different heights available by means of 2 extension pieces of different lengths (delivered as standard).
- Supplied with 2 stainless steel shackles for securing lifting block or accessory.

Options available

- Manual VHR type load lifting hoist.
- Manual winch system as standard for load lifting.
- Manual winch system as a personnel lift with fall-prevention device.
- Wide range of aluminium, stainless steel or galvanized bases to be fixed to floor or wall.
- Mounting hardware kit.
- Jib crane frame riser with different heights.

Technical characteristics

- Galvanized steel dismountable jib crane, 360° slewable.
- Span : loads vary with span from 0.5 to 1.5 m.
- Headroom beneath hook: 2.88 to 3.26 m.
- Load capacity : 500 kg.
- Electrogalvanized swivel mounted on greased ball bearings.
- Loaded slewing effort : less than 200 N.
- 2 tubular, hinged and removable manoeuvring handles.
- Manual lever hoist with galvanized chain to orientate the jib arm.
- Nylon return pulley.
- Flat synthetic fibre strap guy.
- Each element is fitted with a synthetic fibre carry handle.
- Storage case in varnished pinewood.

Options available

- Manual VHR type load lifting hoist.
- Manual load lifting winch.
- Wide range of aluminium, stainless steel or galvanized bases to be fixed to floor or wall.
- Mounting hardware kit.
- Paint uaranteed 6 years.
- ATEX jib crane or in STAINLESS STEEL.

GANTRY CRANES

Range of movable gantries for loads of 250 to 5,000 kg.

VGI gantry crane

Range of gantries, movable by hand, for loads of 250 to 5,000 kg.

With this line of VERLINDE independent manual gantries, maintenance services, assembly teams and any artisan mechanic will be able to carry out mounting, dismounting operations, and position parts or assemblies. This line of standard gantries is designed to receive all types of hoisting device. The VERLINDE gantry can be equipped with manual or electrically-powered chain tackle.

Technical characteristics

- The extreme mobility and stability on all surfaces provided by means of four caster wheels fitted with ball bearings on the shafts and king pins. These wheels formed from acetyl resin have excellent shock behaviour and ability to withstand attack by chemicals.
- The raceway is a weld-fabricated IPE profile designed to accommodate a lifting and traversing movement device, with two traversing breast-pieces. The unit is finished in RAL 1028 polyurethene lacquer. Fully dismantlable, the VERLINDE independent gantries adapt to your need to make best use of workshop space.
- The gantry is delivered disassembled, together with its galvanised boltwork and takes little time to assemble and commission.
- A 3-piece dismounted weld fabricated package.
- The gantries can be moved loaded on a smooth, clean floor.

Load capacity

VGPS gantry crane

EUROSYSTEM TYPE STEEL
hollow profile

Technical characteristics

The characteristics of these gantries are identical to those of the standard profile model except for the following :

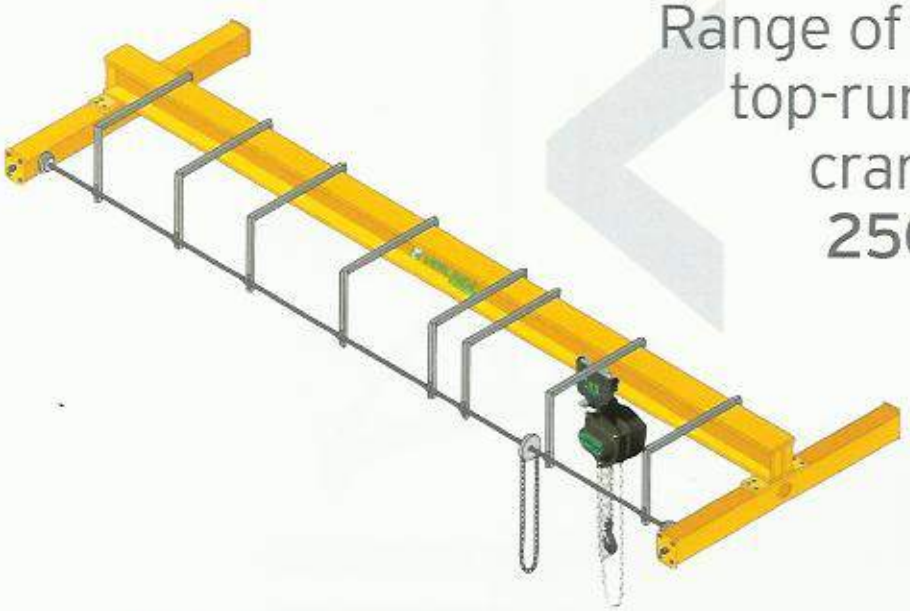
› The raceway of these VERLINDE workshop gantries consists of a EUROSYSTEM hollow profile in steel or aluminium (depending on model).
› The gantry is delivered with a manual hoist-bearing EUROSYSTEM type trolley.
› These workshop gantries are mounted on caster wheels in white polyamide.
› The gantry cannot be shifted under load.
› On the aluminium gantry version :
- Legs can be folded for handling.
- Lift height and span can be adjusted by an operator alone.

VGPA gantry crane

EUROSYSTEM TYPE ALUMINIUM
hollow profile

MANUALS CRANES

Range of hand operated top-running travelling cranes for loads of **250 to 10,000 kg** and span of up 16 meters

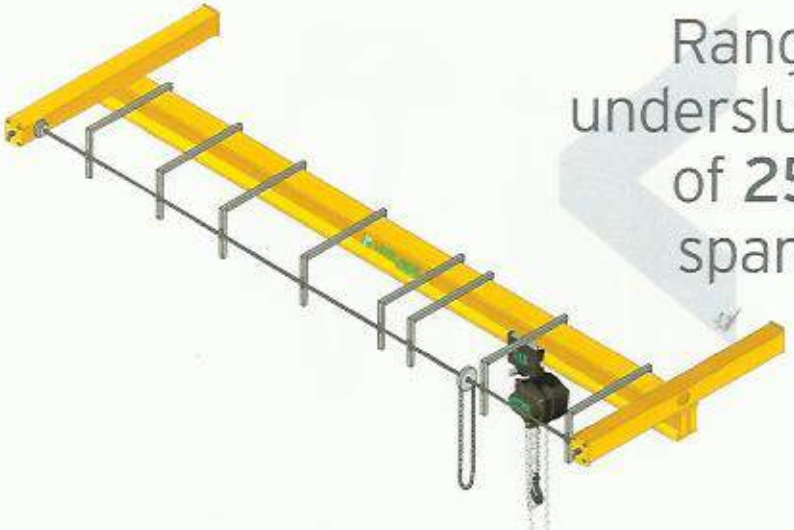


Technical characteristics

> Complete crane delivered ready to erect. Frame designed to group 2m requirements. The runway beam consists of an IPN, IPE, HEA or HEB profile, depending on the load and span, two travel movement support girders equipped with steel wheels and buffer. Finish in RAL 1028 glycerophthalic lacquer.
> Delivered with assembly and dimension drawings.
> An option for electrification of this type of crane is also available.

VERLINDE's manual travelling cranes program provides access to a comprehensive travelling system for your hand operated or electrically powered lifting devices.

Range of hand operated underslung cranes for loads of **250 to 6,300 kg** and span of up to 16 meters.



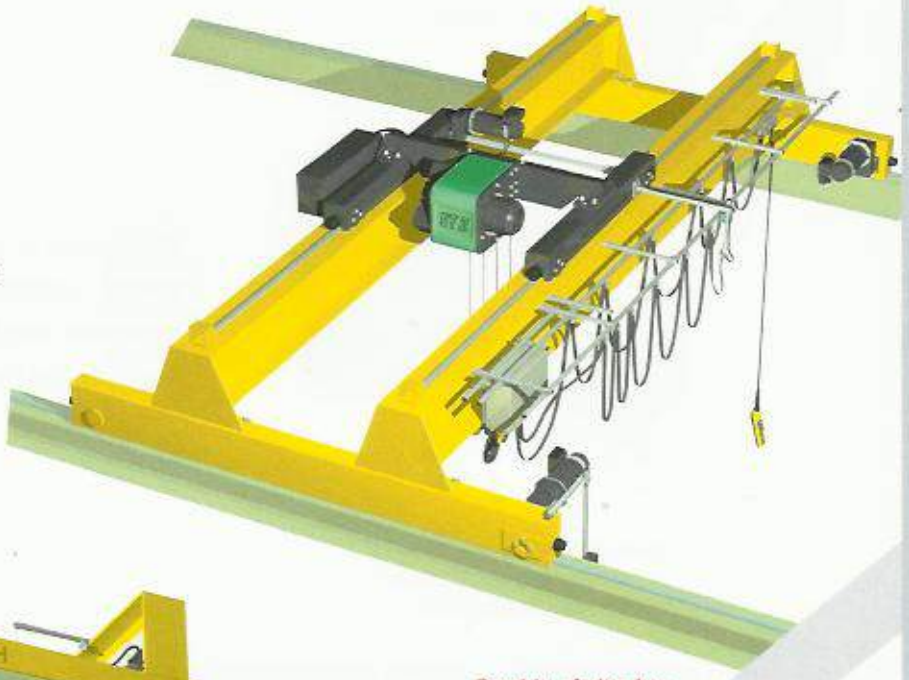
Technical characteristics

> Complete crane delivered ready to erect. Frame designed to group 2m requirements. The runway beam consists of an IPN, IPE, HEA or HEB profile, depending on the load and spanwith two travel movement support girders. Finish in RAL 1028 glycerophthalic lacquer. Delivered with assembly and dimension drawings.
> End carriage fitted with steel wheels and buffer.
> An option for electrification of this type of crane is also available.

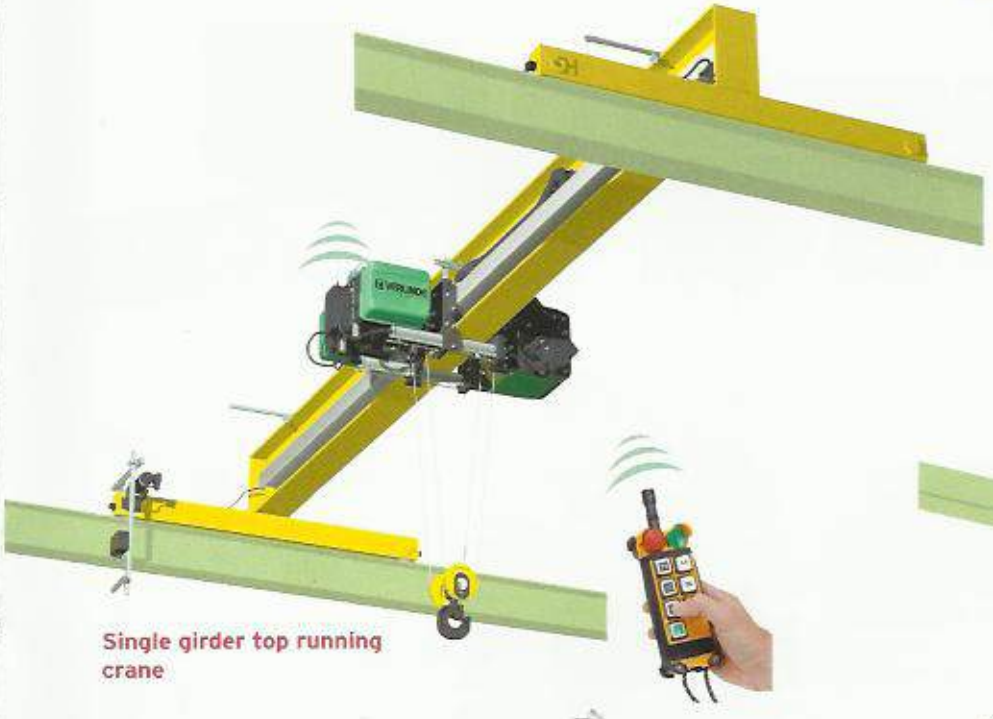
EUROPONT® VERLINDE

VERLINDE's range of EUROPONT travelling cranes breaks down into 7 versions and two types (conventional power supply line or cable-carrying chain) :

- Single girder top-running overhead travelling crane with electric chain or wire rope hoist.
- Single girder underslung overhead travelling crane in profile with electric chain or wire rope hoist.
- Double girder top-running overhead travelling crane with electric wire rope hoist.



Double girder top running crane



Single girder top running crane

Underslung travelling crane single girder

Refer to sales infromation for our range of travelling cranes in the EUROPONT VERLINDE sales brochures. Refer to page 67.

COMPOSANT +

Travelling crane components.

Top-running and underslung end carriage.
› Wheels are also available in spark-proof version.

The range of VERLINDE components for electrically-power overhead travelling cranes offers you a complete high performance hoisting, travelling and traverse system.

Travelling roller unit.
› This geared travelling unit is designed for top-running end carriage.

General power supply line.
› Conventional type of power line.
› Cable holder chain power line.

Electric cabinet.
› Sealed (IP55) steel cabinet.
› Main isolating switch, actuatable from outside.
› Compliant with standard NF 52070.
› Available in explosion-proof version.

Travelling motor gear box.
› 2 standard travel speeds : many other speed possibilities.
› Motor-reduction set available in explosion-proof version.

Movable box.
› Movable along the length of the crane as its travels, and independent from the hoisting device.

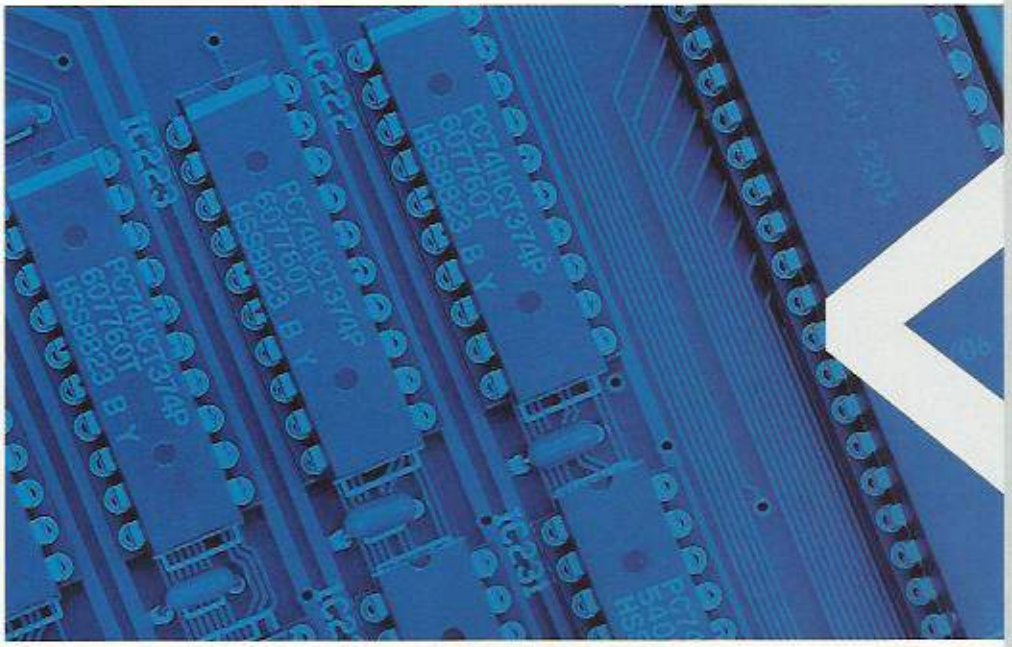
Options available

› Radio remote-control system.
› VARIATOR : frequency inverter system for variable speed on lifting and travelling motions.
› Electronic system for monitoring the statuses of the hoist and crane.
› Zone lighting.
› Luminous or audio warning system indicating that the load is in motion.
› Digital display of load on the crane, hook or pushbutton box.

› Load gripping system (lifting beam, clamp and clamshell)

Electronic devices

Radio remote control. Definition : radio remote control system for hoists and travelling cranes.



EUROMOTE

MICROMOTE

VARIATOR

EUROMOTE®

The EUROMOTE remote control systems have been specially designed for use with the EUROBLOC and EUROCHAIN hoisting unit and the crane components of VERLINDE.
Adapted to the most severe industrial conditions, the EUROMOTE remote control systems stand out through their ease of use, great flexibility and reliability. They will enable you to improve the productivity of your operators and the safety of lifting manoeuvres and achieve productivity gains and shorter down-times.

MICROMOTE®

Radio remote control system for hoistsand travelling cranes.

EUROMOTE H®

Radio remote control system for hoists and travelling cranes.

EUROMOTE H2®

Radio remote-control system for hoists and travelling cranes.

VARIATOR®

Lift and travel movement speed variation system for hoists and overhead travelling cranes.

VARIATOR TM

With the VARIATOR you will be able to use your hoisting equipment more accurately and flexibly.

VARIATOR LM

Technical characteristics

The VARIATOR speed variation systems have been specially designed for use with the EUROBLOC and EUROCHAIN hoisting unit and the crane components of VERLINDE.
In a reliable and complete speed variation system (variator together with its dedicated software, brake management, main breaker, electronic surveillance system, ...), the VARIATOR systems are easy to install and use.

Why should you vary the speed of your hoisting equipment ?

- Varying the speed enables the operator to move his load with greater accuracy and flexibility.
- The VARIATOR enables the speed to be adapted to suit the load and the know-how the user has in the hoisting system and production process.
- Avoids swinging of the load.
- Increases mechanical lifetime.

Standards and hoisting regulations

CE directive. Since 129 December 2009, the European Machinery Directive (2006/42/EC) applies to the sale and assembly of all new machines marketed from 2010. The new decree is complementary to the former Directive, made up of 600 standards issued in 1995. That directive obliges that machine constructors ensure that their machinery complies with certain reglementations, standards, national legislations and technical specifications.

F.E.M. European lifting equipment association.

S.W.P. Safe Working Period. 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 rarely 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 frequently subject to maximum or near maximum load.

Average daily operating time in hours				≤0,5		≤1		≤2		≤4		≤8		≤16	
Class of duty				V0,25	T2	V0,5	T3	V1	T4	V2	T5	V3	T6	V4	T7
Class of duty	1	L1	Light					1Bm	M3	1Am	M4	2m	M5	V4	M6
	2	L2	Medium			1Bm	M3	1Am	M4	2m	M5	3m	M6		
	3	L3	Heavy	1Bm	M3	1Am	M4	2m	M5	3m	M6				
	4	L4	Very Heavy	1Am	M4	2m	M5	3m	M6						
Group								1Bm	M3	1Am	M4	2m	M5	3m	M6
Duty factor*								25 %		30 %		40 %		50 %	
Number of starts per hour								150		180		240		300	

F.E.M. standard specification 9511 ISO standard specification.

$$\text{* Duty factor in \%} = \frac{\text{Hoisting time + Lowering time}}{\text{Hoisting time + idle time + Lowering time + idle time}} \times 100$$

Glossary

C

CHV®. Electrically powered travelling trolley for loads of 125 to 3,000 kg
CHD®. Manually-operated travelling trolley for loads of 500 to 20,000 kg.
Classes of operation. See complete definition above.
Command height. Distance between the push button box and the hoist.
Coupled. The hoist is coupled to a travelling trolley with a coupling strap. this option is used in order to obtain shorter headroom.

D

Degree of protection (IP). IP XX. The first parameter defines the degree to which it is sealed against dust, the second the degree of water-tightness. IP 54 is generally for inside use and IP 55 for outside use.
Direct control. Voltage control of the hoist via the power supply voltage in the pushbutton box.
Double-girder. Travelling trolley used to move the hoist along 2 tracks.

E

Emergency stop. Mushroom-head switch located on the push-button box that enables the machine to stop immediately by means of a circuit breaker in the control panel.
EQUIBLOC®. Load spreading system for loads of 0.4 to 55 kg.
EUROBLOC®. Electric wire rope hoist for loads of 630 to 160,000 kg.
EUROCHAIN®. Electric chain hoist for loads of 60 to 10,000 kg.
EUROLIFT®. Electric belt hoist for loads of 500 to 5,000 kg.
EUROMOTE®. Radio and infra-red remote control systems.
EUROPONT® by VERLINDE. EUROPONT electric travelling cranes, constructed in compliance with EU standards comprising VERLINDE components.
EUROSTYLE®. Manually-operated or motor-driven slewing cranes for loads of 125 to 10,000 kg.
EUROSYSTEM®. Overhead mechanical handling system for loads of 50 to 2,000 kg.

F

FEM. European lifting equipment association (Fédération Européenne de la Manutention).
FEM/ISO Classification. See complete definition above.

H

Headroom HPR : reduced headroom, HPN : standard headroom. Headroom of the hoist Hook suspended. The hoist is hooked to the travelling trolley by the upper hook ; this option enables the hoist to be used in multi-station confi gurations.
Height of lift (HOL). Total distance between the ground and the hooking support.

L

Limit switches. 2 types : hoisting and travelling. Safety feature that stops the machine in the event of the hook travel or travel distance continuing beyond the limits.
Load capacity (kg). Nominal maximum load for hoisting equipment.
Load limiter. Protects the hoist against overloading (European Machinery Directive 91/368/EEC. Compulsory for hoists with a load capacity equal to or greater than 1,000 kg).
Low voltage control. 48 V hoist control (in the push button box).

M

ME®. Geared manually-operated winches for loads of 150 to 2,000 kg.
MONITOR® Electronic control system for a hoisting unit.
Monorail. A single-rail system for load travel.
Motor gear. Hoisting or travel motor and reduction assembly.
MV. Worm-geared manually-operated winches for loads of 250 to 3,000 kg.

N

Number of falls. Number of sections of chain, rope wire or belt used to hoist the load.

O

ON/OFF. On/Off switch.

P

PAP®. Girder clamps for loads of 1,000 to 5,000 kg.
Percentage duty factor. See complete defi nition above.
PEV® Digital electronic force gauge.
PLV®. Manually-operated lever hoist for loads of 250 to 3,000 kg.
Pendant push -button box. Control inter face between the operator and the electric hoisting unit.

R

Reduction gear. 2 types : hoisting and travelling. Several reduction gear techniques are used for hoisting : standard gearing, 2 or 3 helical gears, planetary gearbox etc.

S

Safety coefficient. This parameter multiplied by the load capacity is used to define the rupture limit of a component. It is generally given for the hoisting chain or rope.
Support girders. 2 types : mounted or overhead. Translation movement devices used for horizontal displacement of travelling crane girders.
SWL (Safe working load). See load capacity.

T

TEC®. Work-site electric winches for loads of 600 to 7,500 kg.
Thermistor. Thermic motor protection device.
TIRLIFT®. Electric winches for loads of 125 to 990 kg.
TLV®. Manually-operated lever winches for loads of 800 to 3,200 kg.
True vertical lifting. Enables the load to be raised and lowered without the hook needing to be moved laterally.

U

Utilisation group. Refer to full definition above.

V

VARIATOR®. Hoisting or travelling speed inverter system.
VHR®. Heavy duty usage-type manually-operated hoist for loads of 250 to 10,000 kg.

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Electric hoists and winches	**EUROCHAIN VL**	☐
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	EUROBLOC VT10-11	☐
	EUROLIFT BH	☐
	TIRLIFT	☐
	TEC	☐
Manual hoists and winches	**VHR**	☐
	ZHR	☐
	PLV	☐
	TLV	☐
	Manual winches type **MV** and type **ME**	☐
Trolleys and accessories	**CHD - CHDD**	☐
	CHV	☐
	PRD	☐
	PRV	☐
	PRP	☐
	EQUIBLOC	☐
	LIMITER	☐
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Electronic devices	**EUROMOTE**	☐
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VERLINDE is :

- The leading French manufacturer and exporter of lifting and handling equipment.
- A comprehensive range of 30 groups of lifting equipment from 60 to 160,000 kg.
- ISO 9001 Quality control certified.

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2, boulevard de l'Industrie - B.P. 20059 - 28509 Vernouillet cedex - France
Phone : (33) 02 37 38 95 95 - Fax : (33) 02 37 38 95 99
Internet : www.verlinde.com