SING THE STANDARD OF PERFORMANCE

Electric winches and hoists

Manual winches and hoists

Trolleys and accessories

Jib cranes and travelling cranes

Electronic devices

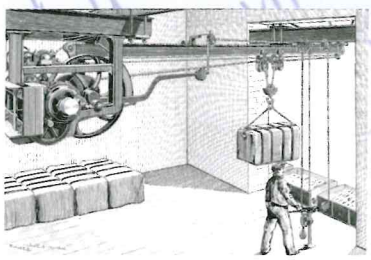
products catalog

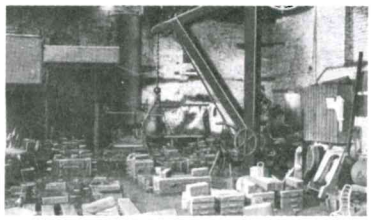
The story of a dedicated business

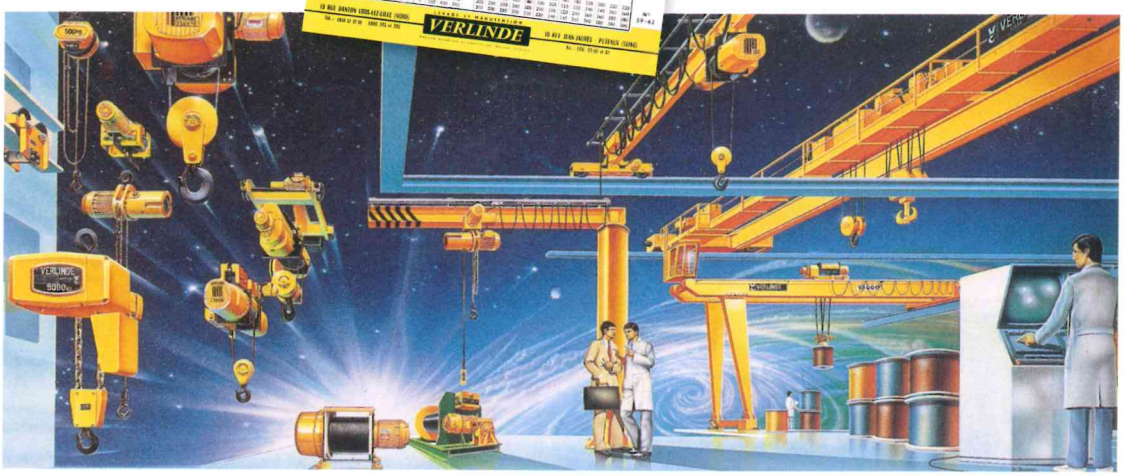
Founded in 1858, VERLINDE offered the French Navy and army engineering corps a revolutionary "endless screw hoist".

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 team 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 team 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.

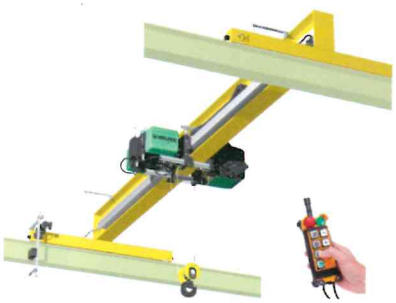
The following commercial services are also at your disposal :

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

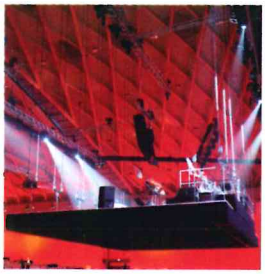
This VERLINDE SA department offers you made-to-measure hoisting solutions :
- Hoisting units built to your specifications.
- A wide range of explosion-proof and spark-proof hoisting equipment.
- Special hoists : EDF type (Nuclear Power Plant), Renault, PSA,...



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 79.

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,...).

Commercial sales brochures for Verlinde technologies, Europont and Stagemaker are also available.
Refer to page 79.

Electric winches and hoists

Manual winches and hoists

Trolleys and accessories

Jib cranes, gantry cranes and travelling cranes

Electronic devices

EUROCHAIN VR®

Electric chain hoist for loads from 63 to 10,000 kg

Completely innovative, top of the range design, its fluid, contemporary and elegant lines confirm the power of this electric chain hoist. This new generation of EUROCHAIN VR hoists is the result of innovative technology ; new materials, new operating concepts, can adapt to each specific need.

Made-to-measure configurations

- Fixed suspended by hook.

EUROCHAIN VR5

EUROCHAIN VR25

- Hooked to a manual or electric trolley in a Eurosystem ST profile

- Hooked to a manual or electric trolley in a Eurosystem ALU profile

- Coupled to a pushed or chain driven travelling trolley.

- Coupled to a motorised variable speed travelling trolley.

DIGICHAIN®

Electric chain hoist with hand positionner on hooks for loads of up to **500 kg**

+ ergonomics

A workstation meeting fully the demanding requirements of today's users.
With DIGICHAIN and positionner on hook your loads ranging from 63 to 500 kg can be effortlessly positioned with spot-on accuracy.
The orientation of the hoisting hook and handling grip can be suitably adapted by means of the adjustment screw.
100% safety The DIGICHAIN handling system enables you to lift your loads up to a height of 5 meter.

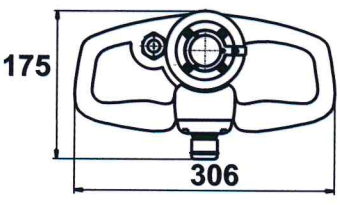
+ safety

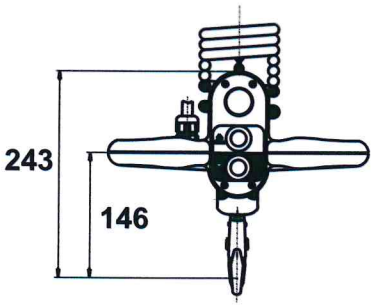
The DIGICHAIN handling system enables you to lift your loads up to a maximum height of 5 meters.

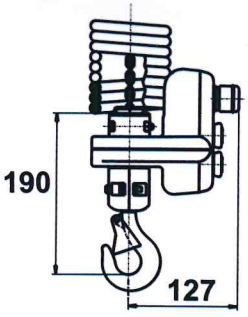
- Coil-formed control cable eliminates all risk of snarling up.
- Upper and lower limits switches, for greater operating safety.
- Hoisting hook can be dismounted and replaced with other hoisting or gripping tools.
- Low voltage 48 volts control system ensuring maximum operator safety.

Technical characteristics

- Load capacity : 63 to 630 kg.
- Maximum hoisting height : 5 meters.
- Upper and Lower limit switches.
- Dismountable hoisting hook.
- Low voltage 48 volts control system.
- Weight : 3.2 kg.
- Storage temperature : -40°C to +60°C.
- Service temperature : -20°C to +40°C.
- Relative humidity : 90%.
- Maximum side pull operability : 3 degrees.





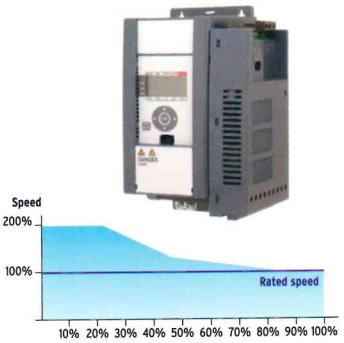


VARIO®

Electric chain hoist stepless lifting speed

productivity

Continuous speed control offers starting without jerking, rapid accelerations and gentler stopping, to optimize load-handling operations.
ESR system allow adaptation of deceleration ramp and offer faster lifting speed with lighter load (up to 200%).



lifetime

Continuous speed control reduces mechanical impacts thanks to gradual starting and gentler stopping. The lower numbers and extents of impacts on the components of the bridge or structure considerably lengthen the service life of the frame.

savings

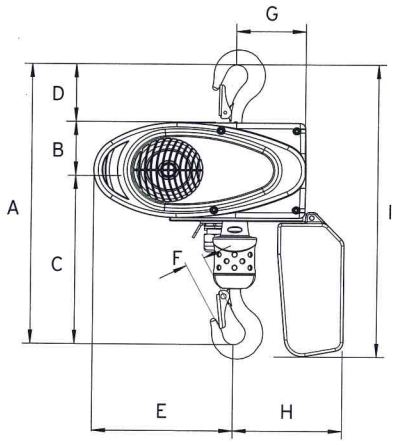
Continuous speed control enables electric braking to be used as priority when decelerating before applying the mechanical brake. Electric braking reduces brake wear since the mechanical brake is used only as holding brake (parking brake).

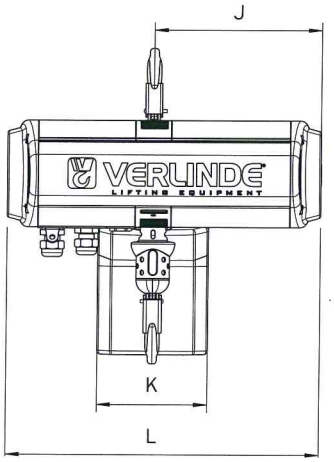
Technical characteristics

- Stepless hoisting speed through inverter control.
- Adjustable acceleration/deceleration ramp time.
- EP, MS or analog control modes with load adaptive ESR functionality.
- Brake control with supervision.
- Over speed supervision.
- Clutch slippage supervision.
- Electronic overload prevention through load sensor.
- Programmable hoisting limits set by pendant (available at a later phase).
- Shock load control.
- Hour counter, start counter, SWP calculation.
- Active polygon damping, 50% reduction (only for Europe).
- Power supply 380 to 480V/3Ph/50Hz 60 Hz.
- Low voltage control 48 V (115 or 230 as option).
- Variable travelling speed on electric trolley.

Capacity (kg)	Hoist type	Group		Lifting speeds (m/min)	ESR speeds (m/min)	ESR loads (kg)	Number of falls	Gear box lifetime (hours)	Chain dimensions
		FEM	ISO						
125	VR5 1224 V2F	2m	M5	0,64 → 24	32	80	1	1600	4 x 11
250	VR 5 2516 V2F	2m	M5	0,64 → 16	32	80	1	1600	4 x 11
320	VR 5 3212 V1F	1Am	M4	0,64 → 12,5	32	80	1	800	4 x 11
500	VR 5 508 V2F	2m	M5	0,32 → 8	16	160	1	1600	5 x 14
500	VR 12 5016 V2F	2m	M5	0,63 → 16	32	160	1	1600	7 x 20
630	VR 5 636 V1F	1Am	M4	0,32 → 6,5	16	160	1	800	5 x 14
630	VR 12 6312 V1F	1Am	M4	0,63 → 12,5	32	160	1	800	7 x 20
800	VR 12 809 V2F	2m	M5	0,31 → 9	16	320	1	1600	7 x 20
1000	VR 5 1004 V2F	2m	M5	0,16 → 4	8	320	2	1600	5 x 14
1000	VR 12 1008 V2F	2m	M5	0,31 → 8	16	320	1	1600	7 x 20
1250	VR 12 1256 V1F	1Am	M4	0,31 → 6,5	16	320	1	800	7 x 20
1600	VR 12 1604 V2F	2m	M5	0,16 → 4,5	8	630	2	1600	7 x 20
2000	VR 12 2004 V2F	2m	M5	0,16 → 4	8	630	2	1600	7 x 20
2500	VR 12 2503 V1F	1Am	M4	0,16 → 3,2	8	630	2	800	7 x 20

Hoists dimensions

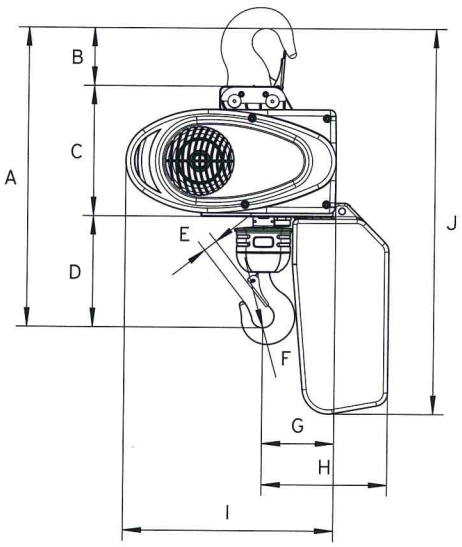


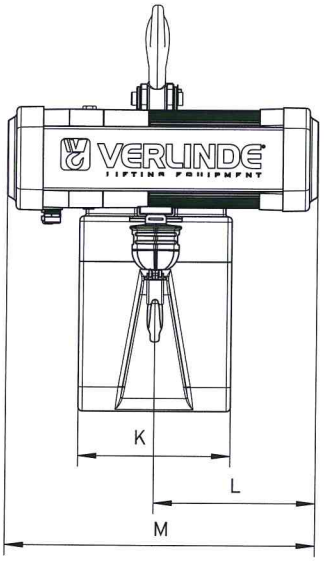


EUROCHAIN VR2 VR5 VR12

Hoist type	Chain dimensions	Chain bag capacity (m)	Max. loading (kg)	Dimensions (mm)												
				A	B	C	D	E	F	G	H	I	J	K	L	
VR2	4 x 11	8	250	376	86	56	76	186	18	131	300	380	219	230	411	–
	4 x 11	8	500	376	86	56	76	186	18	131	300	380	219	230	411	–
VR5	5 x 14	6/16/25	630	445	107	156	182	21	138	161	362	489/554/674	150	230	438	570
	5 x 14	6/16/25	1000	506	107	156	243	27	123	184	362	489/554/674	150	230	438	570
VR12	7 x 20	6/16/30	1250	537	121	186	230	27	150	205	392	570/711/781	200	287	520	653
	7 x 20	6/16/30	2500	607	121	186	300	33	154	236	392	570/711/781	200	287	520	653

Standard version VARIO version



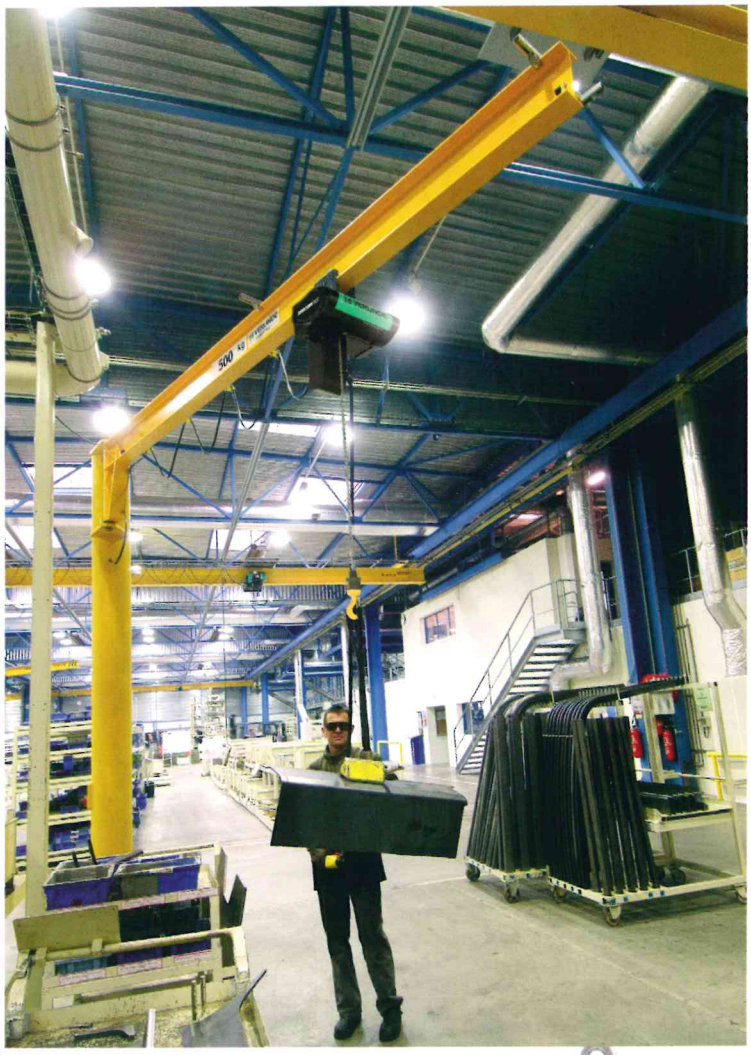


EUROCHAIN VR16 VR25

Hoist type	Chain dimensions	Number of falls	Chain bag capacity (m)	Max. loading (kg)	Dimensions (mm)												
					A	B	C	D	E	F	G	H	I	J	K	L	M
VR16	7 x 20	1	12	1250	614	110	247	257	28	21	137	240	400	730	290	308	590
	7 x20	1	30	1250	614	110	247	257	28	21	137	315	400	905	300	308	590
	9 x 27	1	12	1600	567	110	247	210	26	22	138	240	400	730	290	308	590
	9 x 27	1	30	1600	567	110	247	210	26	22	138	315	400	905	300	308	590
	9 x 27	2	12	3200	693	110	247	336	35	25	179	282	400	730	290	308	590
	9 x 27	2	30	3200	693	110	247	336	35	25	179	357	400	905	300	308	590
VR25	9 x 27	1	12	1600	584	110	263	211	26	22	159	286	439	809	300	306	623
	9 x 27	1	30	1600	584	110	263	211	26	22	159	397	439	986	350	306	623
	11,3 x 31	1	12	2500	611	110	263	238	33	24	159	286	439	809	300	306	623
	11,3 x 31	1	30	2500	611	110	263	238	33	24	159	397	439	986	350	306	623
	11,3 x 31	2	12	5000	761	110	263	388	41	28	207	334	439	809	300	306	623
	11,3 x 31	2	30	5000	761	110	263	388	41	28	207	447	439	986	350	306	623
	11,3 x 31	3	nc	6300	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
	11,3 x 31	3	nc	7500	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc
	11,3 x 31	2 x 2	nc	10000	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc	nc

Options available

- Gear limit switch.
- Single phase power supply
- Second brake on lifting motor.
- Attachment by eyelet (perpendicular) to replace the upper hook.
- Automatic closure lifting hook.
- Travelling limit switch.
- Short headroom trolley.
- Trolley for cuvrved track.
- Leading bracket for power feeding line.
- Dual-speed travelling trolley carriage (20 & 5 m/min).
- Slow speed travelling trolley (3 to 10 m/min).
- High speed travelling trolley.
- Wall-mounted command.
- Manual brake release.
- Additional button on pendant unit.
- Direct voltage hoist control to replace the low voltage.
- Rain protection.
- Reinforced protection.
- Total protection for operation in Zone 22.
- Reinforced tropic-proof protection.
- Hoist available in a version that complies with CSA standards.
- Hoist with protection according ATEX EX regulation.
- Hoist dedicated to entertainment industry (Stagemaker SR).



Stainless steel wheels

Double brake

Stainless steel Hook and lifting chain

Hoist according ATEX EX regulation

Stagemaker SR10

STAGEMAKER SR

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

x2 DOUBLE BRAKE as standard
BGV D8+ READY

Environmental Friendly

+ savings

Maintenance operations are now simpler, faster and more economical :
› Easy access to the torque limiter.
› Easy access to safety fuses.
› New concept of easily dismountable hoisting motor.
› Easy access and removal of plug and play electronic boards.
› Easy visual access to the brake for control.

Optional equipment

› Single phase power supply.
› Single brake.
› Pushbutton controller.
› 4, 8, 12,... channels controllers.
› Low voltage control (48 V) version B.
› Large range of flight cases.
› Non rotating hook.
› Suspension eye instead of upper hook.
› Industrial chain guide.
› Encoder.
› Load measuring system.
› VBG-C1,...
› Rain cover protection.
› Grade 100 lifting chain to increase safety factor.

+ safety

› **Double lifting brake as standard** for more safety. Stagemaker SR is D8+ ready (after resetting nominal load, divided by 2).
› Clutch concept. the clutch position in the reducer ensures the load is held by the brake regardless of the machine's daily operating conditions.
› Electrical limit switch as standard on all hoists (version B).
› IP55 protection for the entire hoist.
› Black electro galvanized lifting chain manufactured specifically for Stagemaker.
› All hoist motor as integral thermal protection to prevent overheating (version B).

rating convenience

nd level down to 60 db (test certificate

or industrial suspension confi guration
d simply by reversing the chain contai-

r and lower hooks.
delivered with every hoist.
and high strength chain bag made
r, high grade black fabric, is both re-
eversible.

ovation

ECT PUSH

Push", pa-
t, 5 pocket
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n provides
n guiding and
help reduce
in jamming.

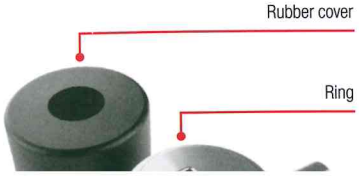
I FLUX

es a horizontal
ain as it comes off
eel.
long with the high
inum construction,
ore fluid flow of
the chain bag and
the risk of chain

ng to avoid water
oad wheel

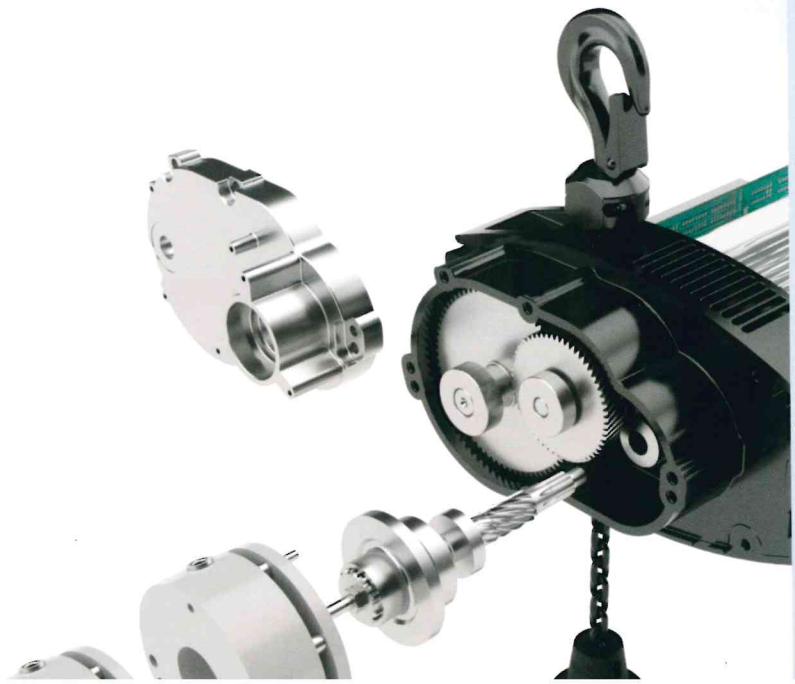
I FLUX

is a built-in limit switch device in the
KII® that's allow to control setting of
position in industrial suspension or
iguration.
he system is given at one link
n.
f the limit is operated by two
g (upper and lower) which can be
and set along the lifting chain.



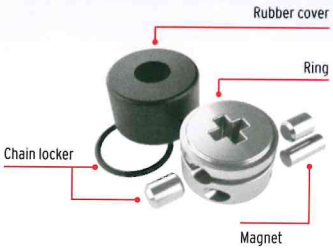
improved ergonomics

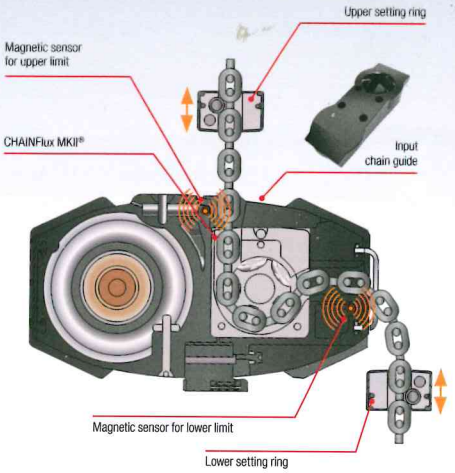
› Due to oval shape the chain can't be stock on top of the motor, this reduce the risk of chain jamming. the design with its flowing and refined lines draws attention to its robustness and on-board technology and gives a strong impression of integral safety.
The new streamlining provides STAGEMAKER SR better integration in its operating environment (lighting, loudspeakers, etc.).
› Hoist meets ecology regulations and is RohS compliant.
› The hoist body is powder coated with black, protective 70 µm epoxy paint, allowing it to perform under the most extreme conditions (-20C° to +50 C° / -4 to 122 degrees F).
› Lifting hook has an ergonomic, rubber clad, gripping surface.
› New ergonomic concept for the retractable, rubber clad handgrips, allow for easy transportation of the hoist.



LIMITFLUX

› The Limitflux is a built-in limit switch device in the CHAINFlux MKII® that's allow to control setting of hoist or hook position in industrial suspension or climbing configuration.
› Accuracy of the system is given at one link of lifting chain.
› The setting of the limit is operated by two magnetic ring (upper and lower) which can be easily moved and set along the lifting chain.

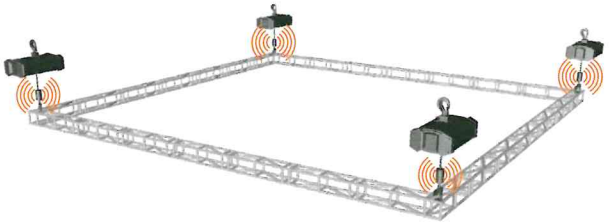




Radio load cell

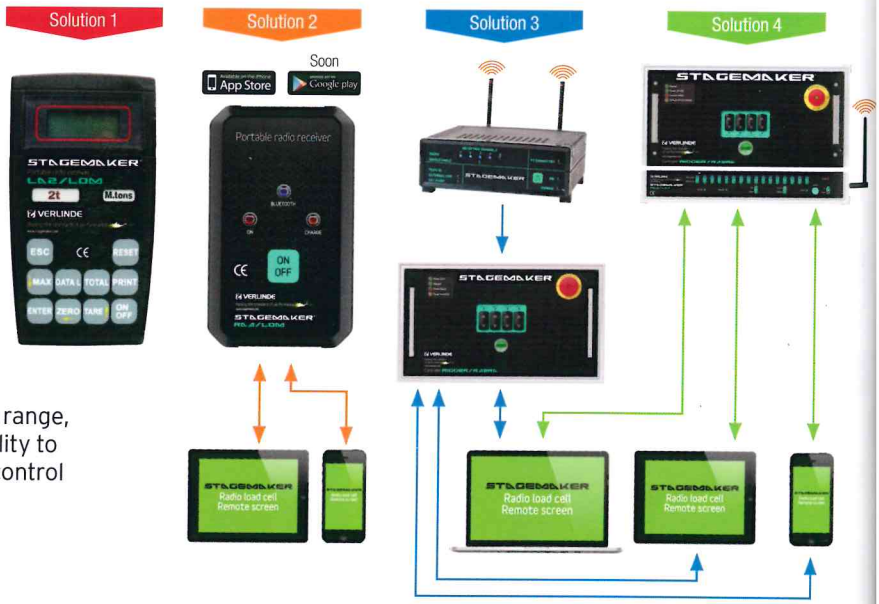
Advantages

› Completely wireless: No messy cables & higher reliability: Multiple channels ensure reliable transmission. Each load cell transmits independently no danger of damage to one cable that will ruin the entire system ability to monitor the loads. STAGEMAKER RADIO LOAD CELL's very long battery life enables complete independence of the power system. This, together with UPS (Uninterruptable Power Supply) to backup the central radio receiver, enables continuous load monitoring even in power shut down. Especially suitable for touring and rentals.
› With SRLI : one-time installation and then the load cell can stay as integral part of the hoist during entire tours, saving the installation time.
› Very low headroom loss.
› Up to 200 load cells on one Central Radio Receiver.
› Load cells are available with a safety factor of 5 or 10.
› No need for any extra accessories like shackles with SRLI.
› Enables easy retrofit to all existing hoists that are in the market (entertainment and industrial).
› Will make the periodical maintenance / service of the hoist easier.
› Enables 5000 hours battery life, optional 10,000 hours i.e. more than a year of continuous use, no sleep mode or standby mode which are not acceptable from a safety point of view.



Options

› Additional channel.
› Suitcase for storage and transportation of 4 or 8 load cell.
› Set point : integration interface between load cell radio receiver and controllers sytem.
› Real time cellular SMS alert on overload occurrence.
› Common cable for load cell radio receiver.
› Group screen display.
› Slave & master Central Radio Receiver for increased range, harsh conditions, and the ability to monitor several halls in one control room.



Controllers

3 Ranges are available from our catalog ECO, RIGGER, THEATER.
The controllers come with 4, 8 or 12 channels and can be integrated in a compact flight case (19" rack 3U to 6U) or a vertical flight case depending on the model. The STAGEMAKER® Controller allows you to control the show motors individually or by group by simply pressing a button. Motor pre-selection system for each control unit, selection panel / remote control comes as standard feature.

The STAGEMAKER® motors equipped with options such as : low voltage control, adjustable limit switch and thermal protection for lifting motor can also be controlled by this system using a single power supply cable. For larger applications, STAGEMAKER® Controllers can be connected together with master/slave functionality. All the motors selected will be activated simultaneously by a single button.

Other configurations are available on request.

The STAGEMAKER® Controller satisfies the current European safety standards relative to electrical equipment

(IEC & EMC) and has been approved by official European institutes. These control systems provide the user with a high level of flexibility, durability and safety.

Controller
Rigger Suitcase

Controller ECO

Controller Theater with radio emitter for remote control in option

Controller Rigger Rack 19"

Flight cases

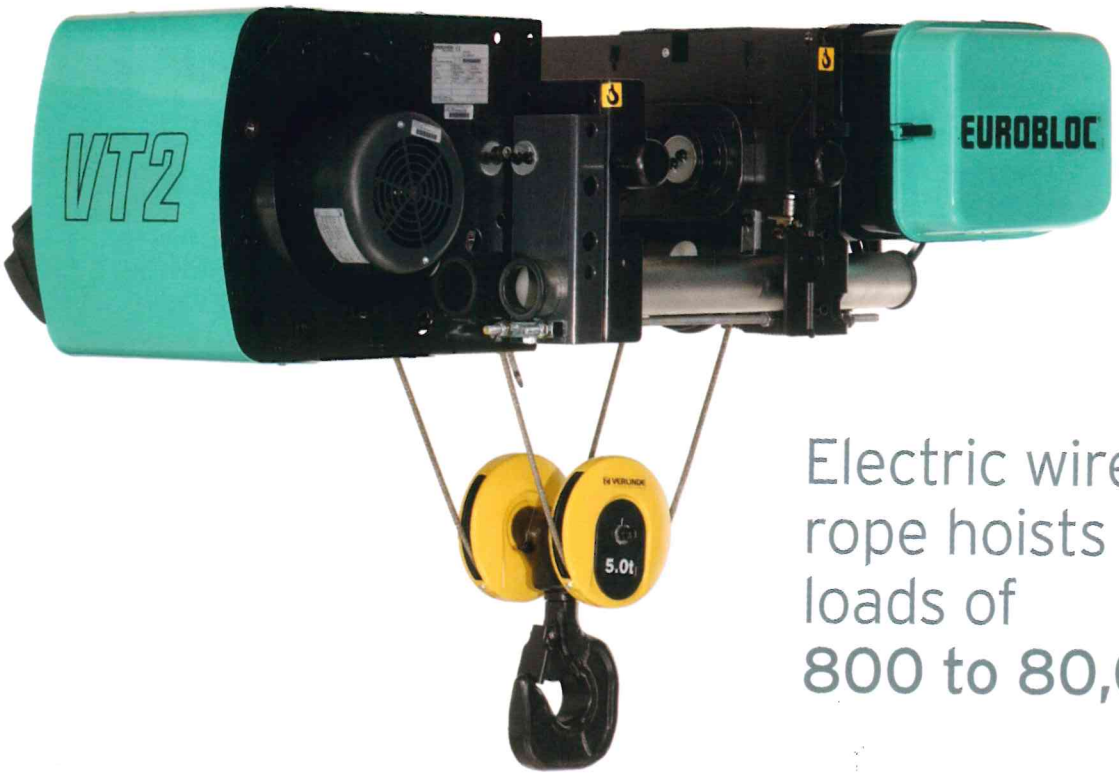
A broad range of flight cases specially designed for the STAGEMAKER® motors and controllers is available.

Premium

Eco

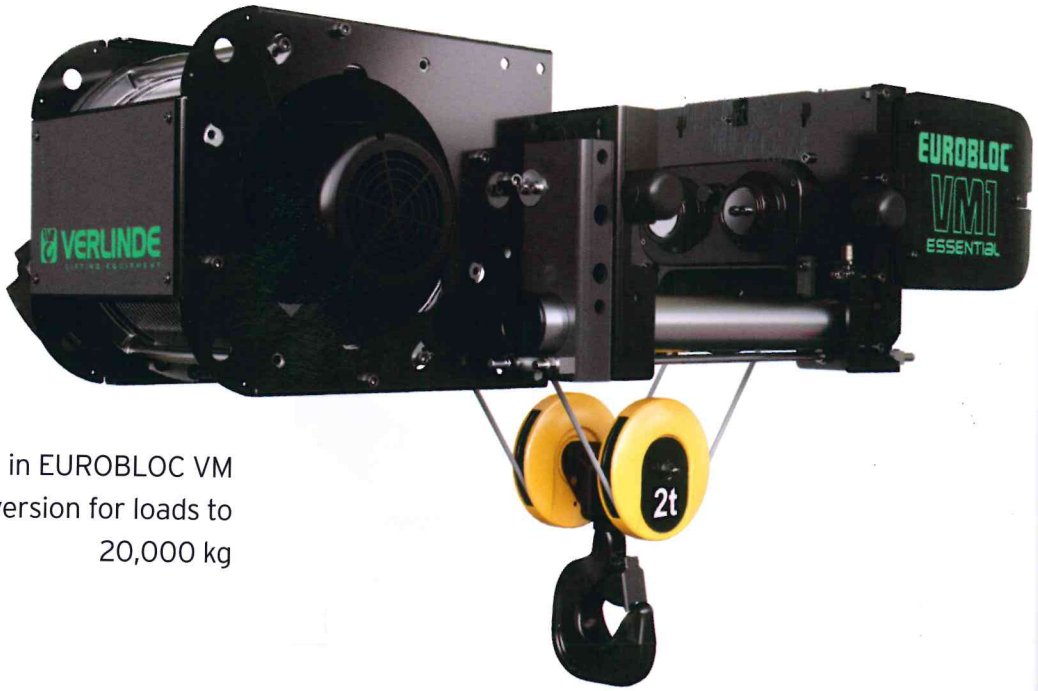
Base

EUROBLOC VT

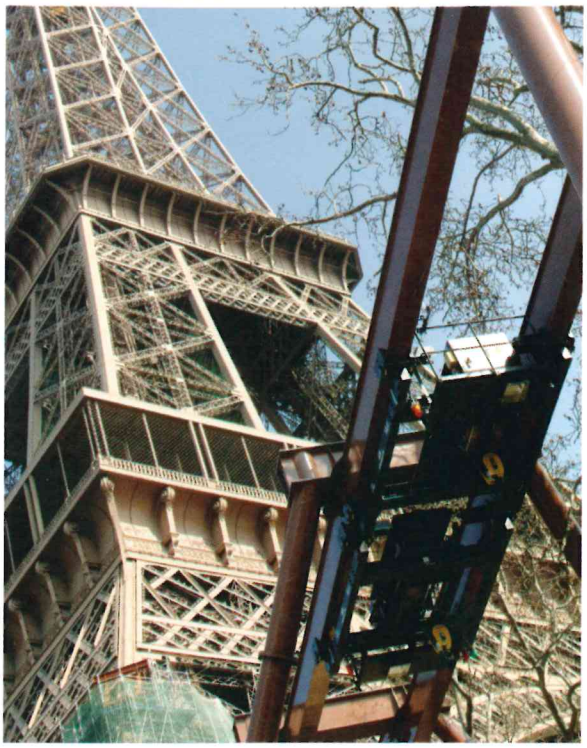


Electric wire rope hoists for loads of 800 to 80,000 kg

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.



Also available in EUROBLOC VM ESSENTIAL version for loads to 20,000 kg



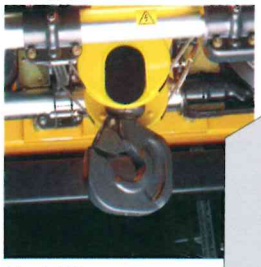
Technical characteristics Eurobloc VT

› 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.
› Monitor MT2 or MT3, supervisor unit for the hoist (deliver as standard according type).
› 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.

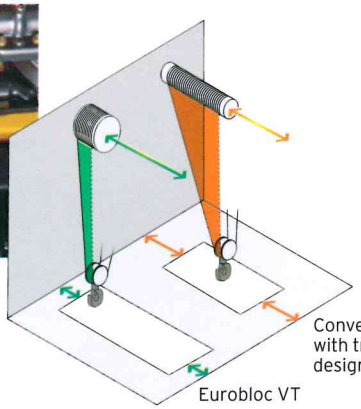
MT2 and MT3, supervisor unit.

Advantages of the EUROBLOC VT

› 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.



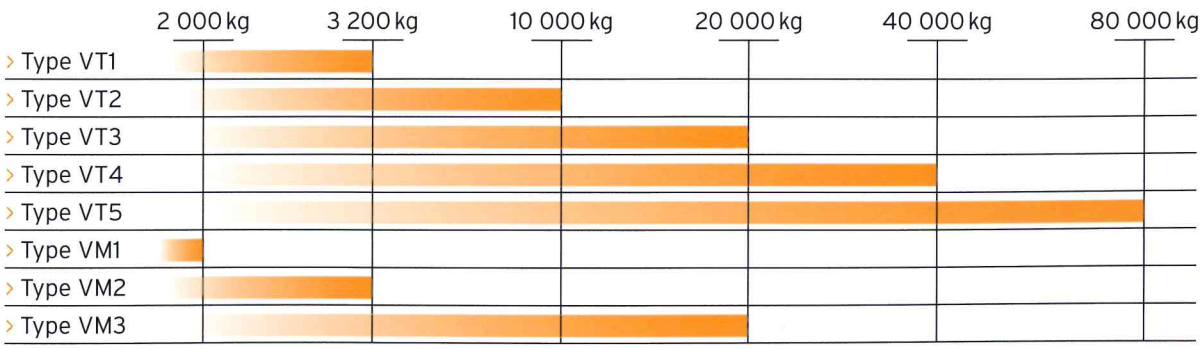
Conventional hoist with traditional design

Eurobloc VT

Options available EUROBLOC VT

› Higher travelling speeds.
› Radio remote control.
› Load limiter with 2 or 3 steps.
› Special supply voltage.
› Load display.
› Explosion proof hoist.

Load capacity EUROBLOC VT



Made-to-measure configurations

- Foot mounted or overhead mounted.

- Monorail trolley with standard headroom (HPN).

- Double girder trolley (fixed or suspended).

› Double girder trolley - Eurobloc VM Essential.

› Monorail trolley with short headroom (HPR) - Eurobloc VM Essential.

› Monorail trolley with short headroom (HPR).

› Monorail trolley with short headroom (HPR) and lifting inverter.

EUROBLOC® VT9-10-11-12

Electric wire rope hoists for loads of 10,000 to 250,000 kg

The EUROBLOC VT family has now been widened to include the VT9-10-11-12. This line of open winches offers technical solutions to meet your requirements for :

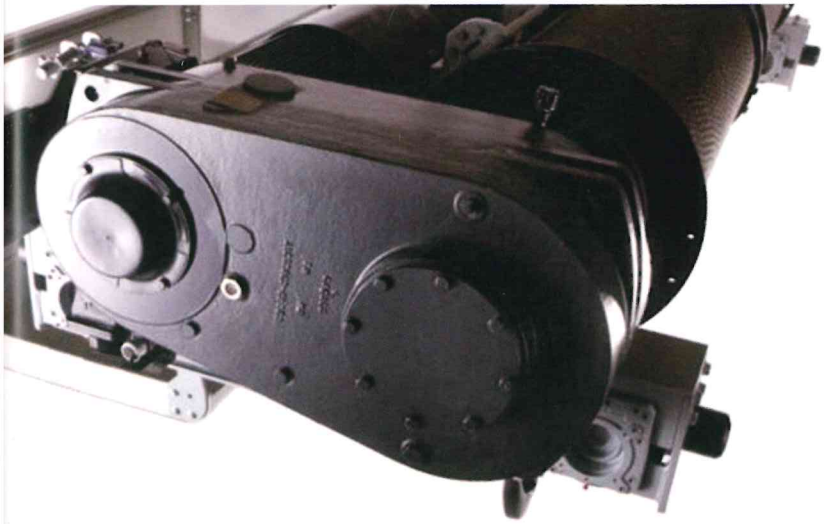
› A greater hoist capacity (10 to 250 tons).
› Lifting height (up to 103,6 m).
› Utilisation group (ISO classification up to M6).
› Hoist speed.
› Speed control (speed variation).

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 120 µm).

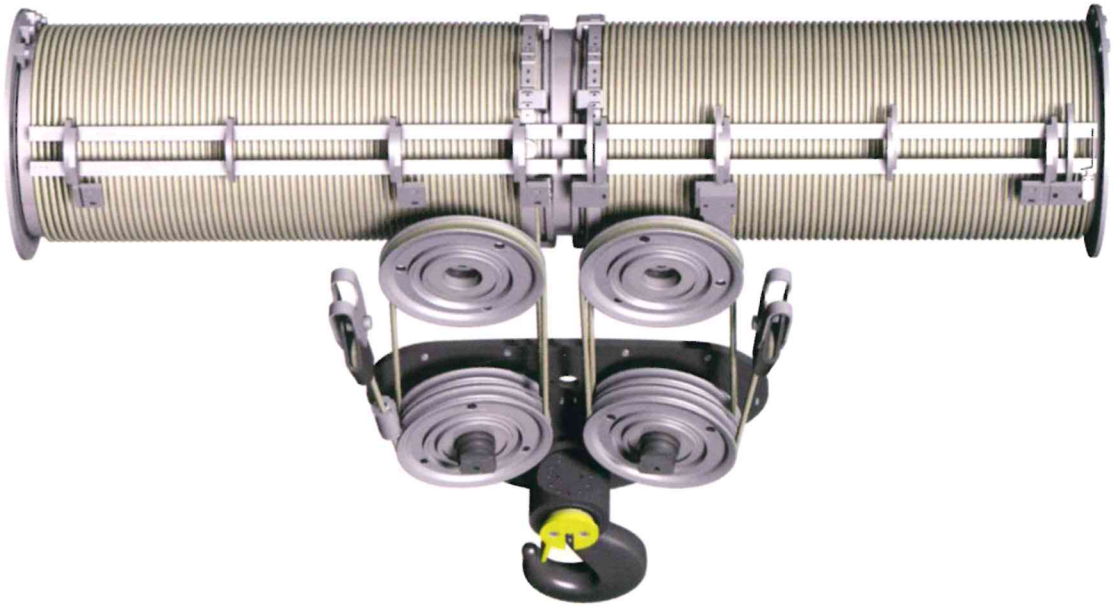
Advantages

› 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

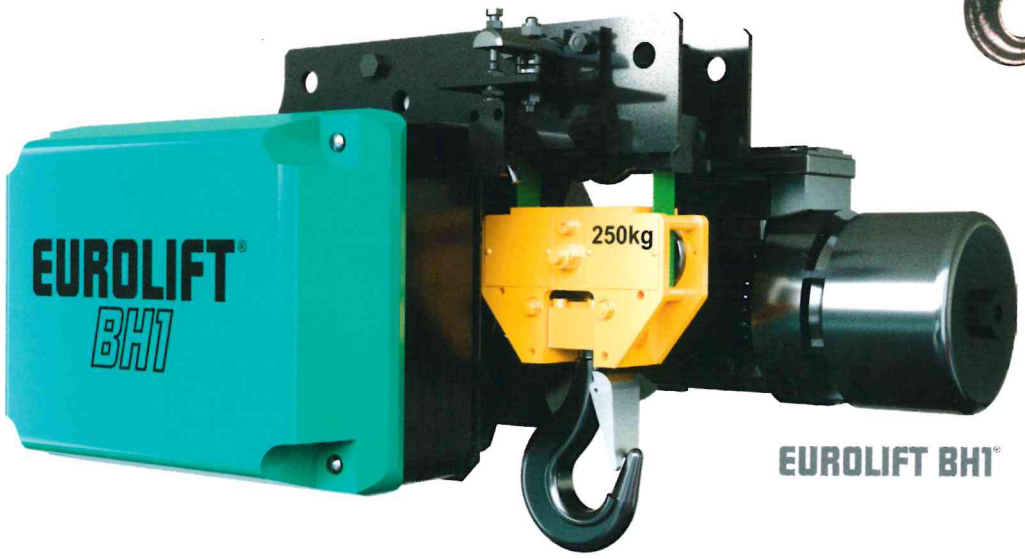
› Service platform.
› Double brakes.
› Wire rope press roller.



EUROLIFT BH®

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

EUROLIFT BH®
Trolley version with worm gear box travelling machinery

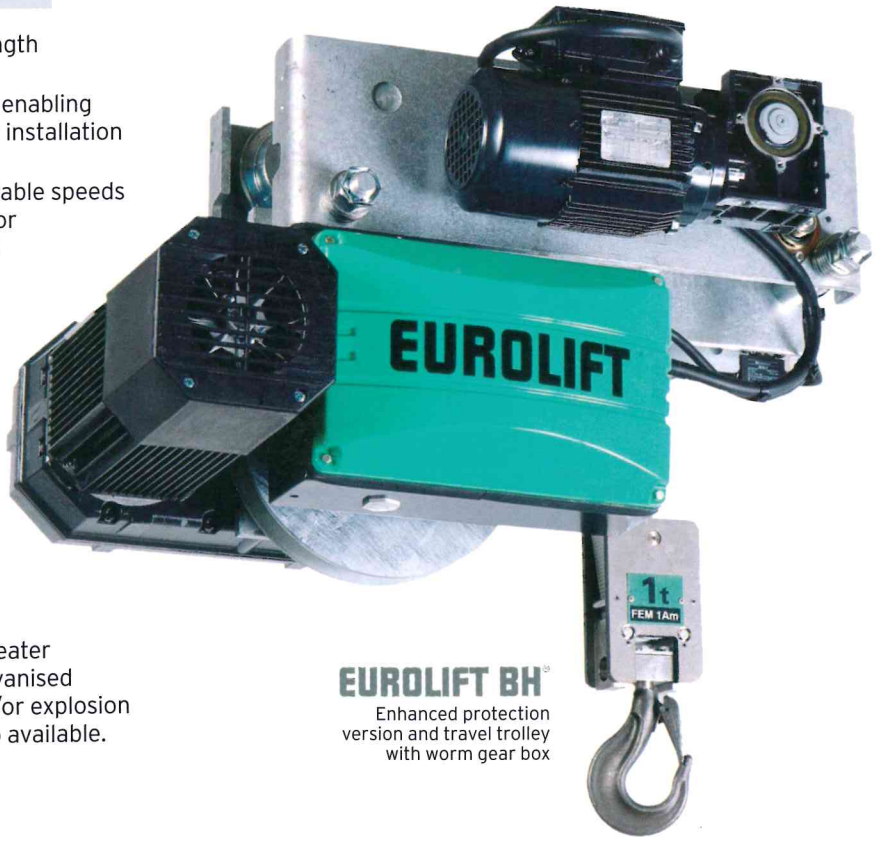


EUROLIFT BH1®

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,...

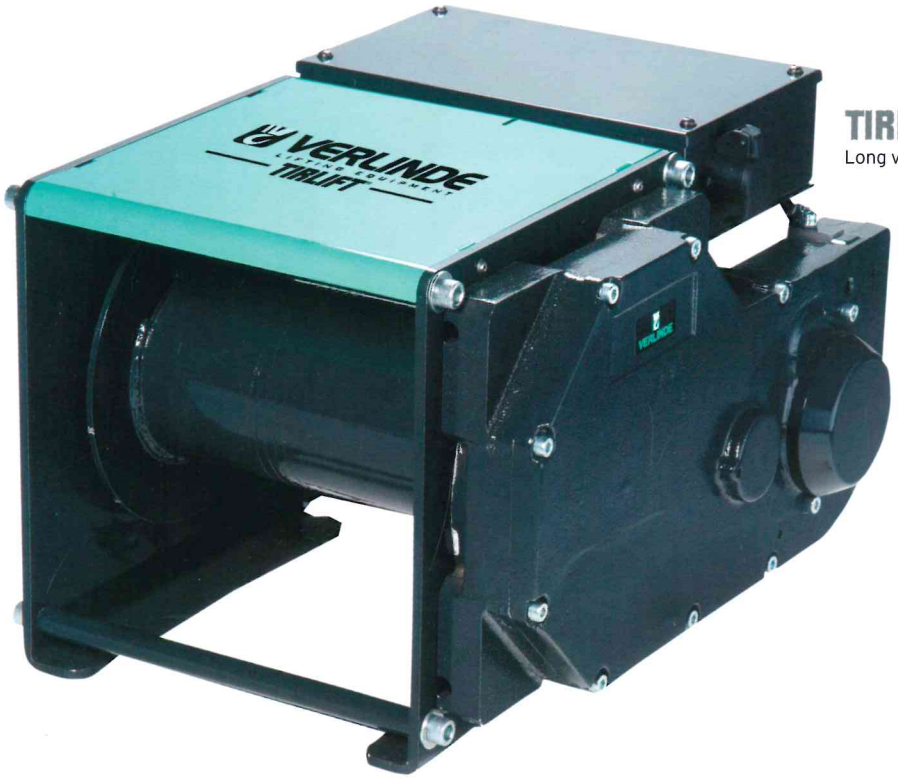
Technical characteristics

- 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.

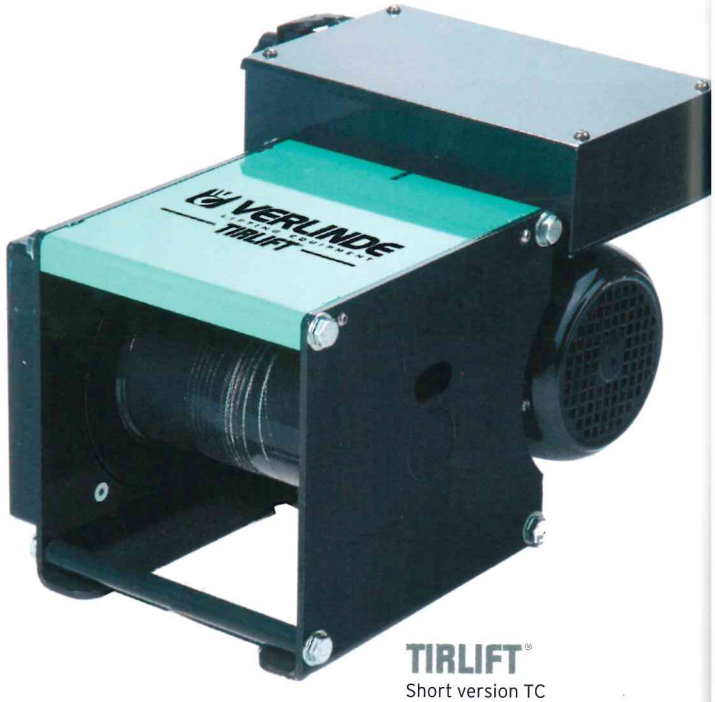


EUROLIFT BH
Enhanced protection version and travel trolley with worm gear box

TIRLIFT®



TIRLIFT®
Long version TL

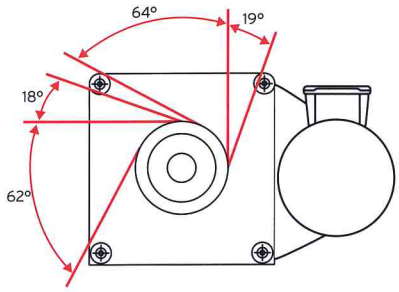


TIRLIFT®
Short version TC

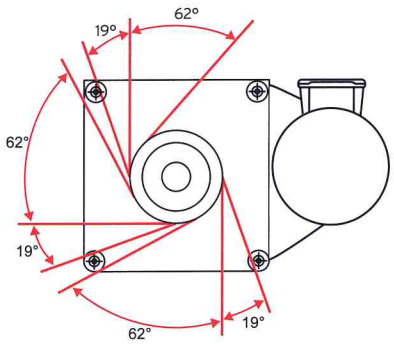
Electric winch for loads of 125 to 990 kg

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.

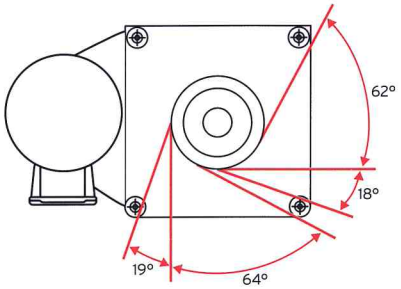
Winch positions and rope outlets



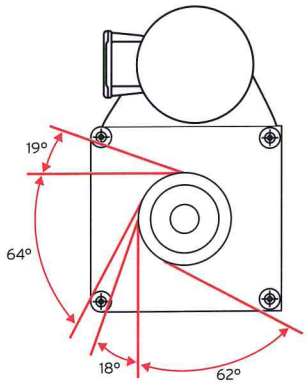
Outlet A
Foot mounted.
Rope outlet on left side (rope fixed to right of drum, on gear side).



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.

TVI®

Industrial electric winch for loads of 1,000 to 10,000 kg

The range of compact electric winches TVI designed for the industrial market.

Due to the robustness, the compact dimensions, the wide range of load capacity, the large availability of options, the diversity of possible attachment, the TVI is perfectly adapted to all standard lifting or pulling/ hauling applications.

› Anti-escape system for the rope. Reduced space between the tie-rod and the drum.

› Frame part are mobile according rope exit.

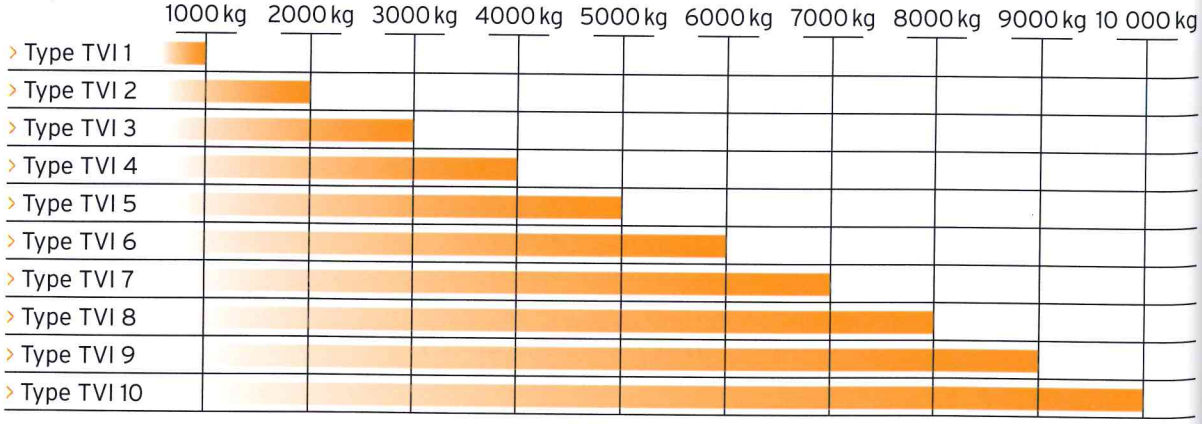
› Rope pressure roller and slack rope detection integrated to upper main frame.

Technical characteristics

› Power supply 230 / 400 V / 3 Ph / 50Hz.
› IP55 motor brake unit.
› Low voltage control 24V - Thermal circuit breaker.
› Electric cubicle IP 55 on the winch.
› Drum length : 350 mm.
› Planetary gear box.
› Push button box with emergency stop.
› 3 meter control cable.
› Several rope exit and options available.

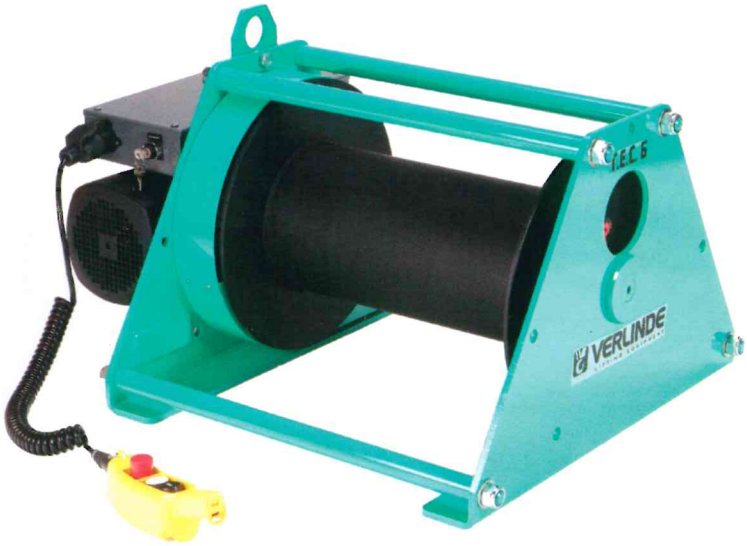
Options available :
› IP66 limit switches.
› Additional rope fixation.
› Load limiter.
› Grooved drum 1 fixation.
› Grooved drum 2 fixations.
› Brake release.
› Add shaft.
› Drum length modification.
› Drum cover at 3/4 surface.
› Total Drum cover protection.
› Special motor voltage.
› Motor tropicalized.
› IP 56 motor.
› IP 65 motor.
› H class motor.
› Slack rope detection.
› Pressure roller.
› Variable speed.
› Offshore paint.
› Radio remote.

Load capacity



TEC®

Electric winch for loads of 600 to 7,500 kg

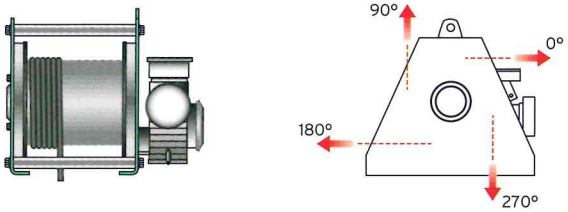


The ideal solution for traction and hoisting loads of up to 7,5 tons. This line of electric winches will perfectly match your needs.
Furthermore, its design displays qualities of discretion, since it is highly compact, and calls for very little maintenance. TEC electric winches comply with the EC directive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

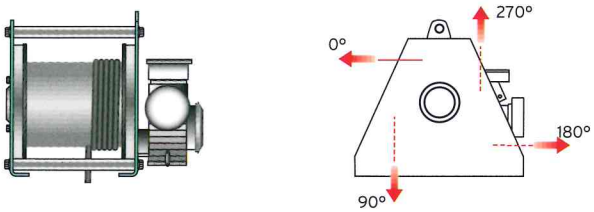
› A frame of modular and open-ended design, permitting for instance multiple cable exit directions from the drum.
› 230 / 400 V / 3 Ph / 50Hz power supply.
› Control voltage 24 V switchgear. Thermic control circuit breaker
› Electric cabinet to IP 55.
› Handset with emergency stop on 3m sprially wound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

Options available :
› Limit switch.
› Electronic load limiter.
› Grooved drum.
› Variable speed winch.
› Radio remote control.

Rope exits

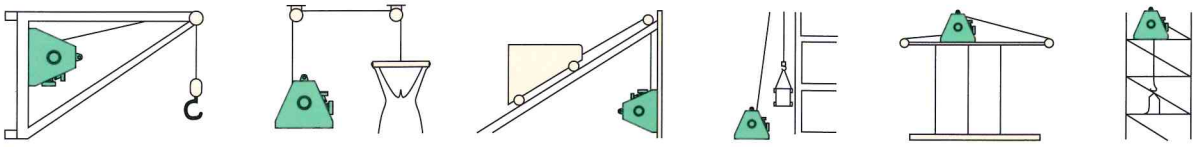


› Right exit (rope) - Standard configuration



› Left exit (rope) - Option

Examples of uses



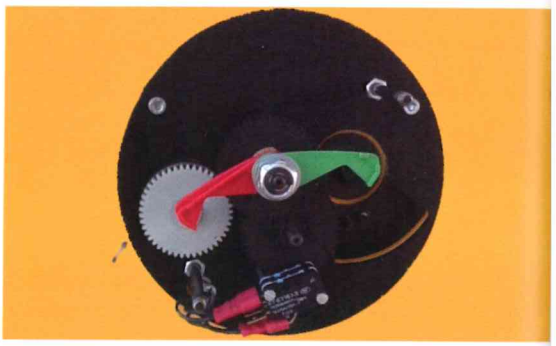
MR®

Single phase electric winch for loads of 150 to 500 kg

Single-phase electric winch designed for lifting and traction simple, ideal to replace a manual winch, used in cases of occasional maintenance.

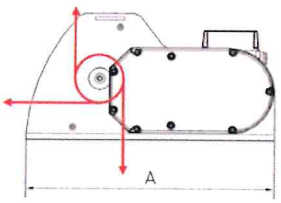
Technical characteristics

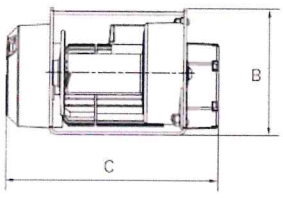
› Power supply 230 / 1 Ph / 50Hz.
› Electric cubicle.
› Direct control.
› Limit switches as standard (2 steps).
› IP 44 MR1 - IP 55 MR2 & 3.
› Push button box with emergency stop.
› 2,5 meter control cable.

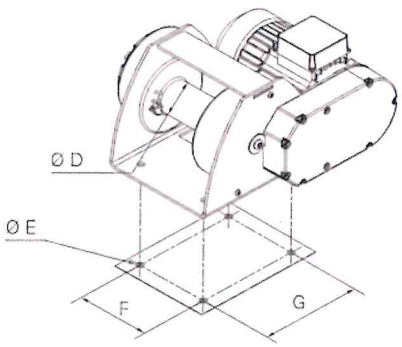


Limit switch very easy to adjust and extremely reliable.

Type	Capacity at last layer (kg)	Capacity at first layer (kg)	Number of layers	Speed at first layer (m/min)	Speed at upper layer (m/min)	Motor power (kW)	Motor type	Max cable lentgh (m)	Weight (kg)	Rope diameter (mm)
MR1	150	150	3	5,5	7	0,25	1 Ph - 230V	15	14	4
MR2	300	300	3	4,6	5,9	0,37	1 Ph - 230V	16	27	5
MR3	500	500	3	2,6	3,6	0,37	1 Ph - 230V	13,5	27	6







Dimensions in mm	MR1	MR2	MR3
A	310	390	390
B	185	205	205
C	285	340	340
Diameter D	54	62	62
Diameter E	9	13	13
F	114	144	144
Diameter G	154	200	200

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

ZHV

PLV

TLV

MV, ME & MT

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

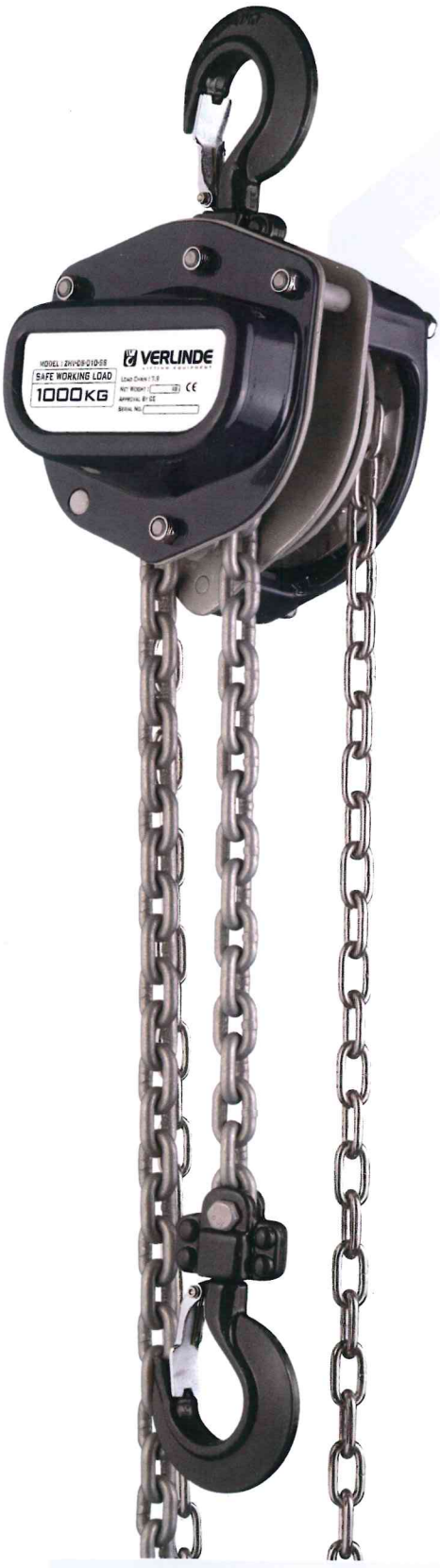
› Machined chain sprocket and gears.
› Hoist mechanism with 4 bearings.
› Overload limiter as standard.
› Heavy duty, galvanized finish hoisting chain.
› Electrogalvanized hand chain.
› ISO hooks with safety latches.
› WESTON type lifting brake.
› Offshore high resistance powder coating (220µ).

Options available

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

ZHV®

Manual chain hoist for loads from 500 to 50,000 kg



Technical characteristics

› Epoxy Painting (min. 50 µm).
› Machined chain sprocket and gears provide smoother, more efficient operation.
› High strength alloy steel load chain with corrosion-resistant galvanized
› Galvanized hand chain.
› ZHV's compact design offers safety together with reduced weight. Ideal for construction and maintenance applications.
› Steel casing solidly protects chain sprocket, gearcase and handwheel cover.
› Upper and lower alloy steel ISO hooks with safety latches.
› Delivered with CE certificate.

Options available (accordding models)

› ZHV with EX ATEX marking (bronze coated hook, polyester paint,...).
› ZHV full stainless steel (hoist frame, chain, hook,..).
› ZHV with Aluminum Ceramic Coat (min. 30 µm).
› ZHV with Aluminum Ceramic Coat (min. 30 µm) and additional polyester paint.
› ZHV with Offshore paint coating.
› Locking device on trolley, activated by hand chain.
› ZHV with normal headroom trolley (HPN).
› ZHV with short headroom trolley (HPR).
› ZHV with trolley for curved beam (HPNB).
› ZHV with short headroom trolley (HPR).

Surface treatment definition

• **Aluminum Ceramic Coat.** This treatment consist into apply a thin layer of Aluminum Ceramic Coat (3 µm) on the components in order to allow an increase in the hardness of the order of 30GPa (pressure of 3 tons per mm^2).
The advantages of this ceramic surface treatment are :
› Reduction of the friction between the parts between them for a increase the service life of parts.
› A reduction of oxidation and corrosion.
› A surface hardness.
› Electrical isolation.
• **Aluminum Ceramic Coat and additional polyester paint.** This double treatment consists of depositing a layer of Pigmented polyester on the treatment ceramic in order to offer enhanced corrosion protection (Navy atmosphere).

ZHV with Aluminum Ceramic Coat

Hand chain block EX ATEX with coat of polyester paint and brass hook

ZHV full stainless steel (500 & 1,000 kg)

ZHV-HPR

Hand chain block with lo headroom trolle construction for load from 500 to 50,000 k

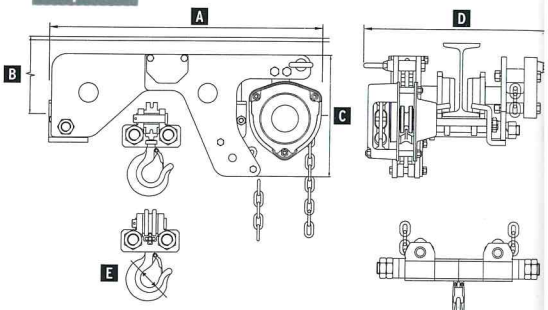
Technical characteristics

› Epoxy Painting (min. 50 µm).
› Machined chain sprocket and gears provide smoother, more efficient operation.
› High strength alloy steel load chain with corrosion-resistant galvanized.
› Galvanized hand chain.
› ZHV's compact design offers safety together with reduced weight.
Ideal for construction and maintenance applications.
› Steel casing solidly protects chain sprocket, gearcase and handwheel cover.
› Upper and lower alloy steel ISO hooks with safety latches.
› Delivered with CE certificate.

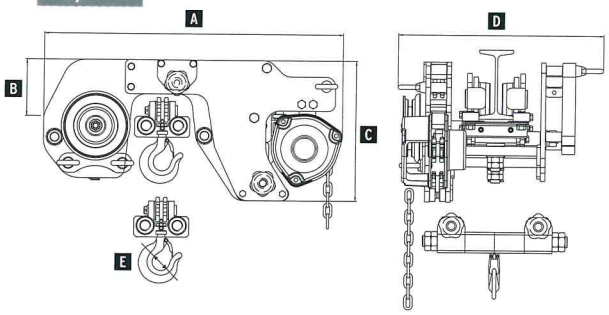
Options available

› See options of ZHV-CHZ.

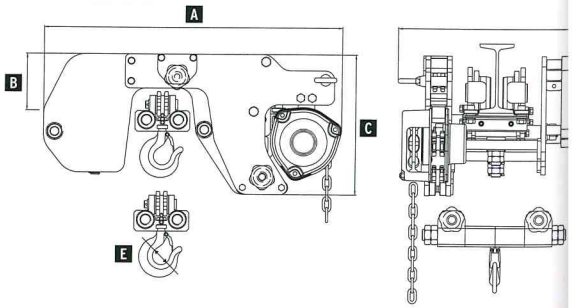
Layout 1



Layout 2



Layout 3



Load (kg)	Dimensions in mm					Standard height of lift (m)	Length of hand chain (m)	Lifting chain size (mm)	Number of falls	Flange width (mm)	Min radius (mm)	Weight (kg)
	A	B	C	D	ØE							
Layout 1 : Hand chain block ZHV with short headroom push trolley (HPR)												
1000	561	150	-	418	38	2,5	2,0	Ø 6,3 x P19,0	2	75 ~ 125	2900	61
2000	560,5	150	285	372,5	41	3,0	2,5	Ø 7,1 x P20,2	2	75 ~ 150	3200	64
Layout 2 : Hand chain block ZHV with short headroom geared trolley (HPR)												
1000	652	150	304	448	38	2,5	2,0	Ø 6,3 x P 19,0	2	75 ~ 125	2900	59
2000	560,5	150	285	463	41	3,0	2,5	Ø 7,1 x P 20,2	2	75 ~ 150	3200	63
3000	691	300	370	568	58	3,0	2,5	Ø 7,9 x P 23,0	2	100 ~ 150	3500	150
5000	794	300	407	644	64	3,0	3,0	Ø 11,1 x P 33,3	2	125 ~ 175	-	195
10000	995	350	643	640	86	3,5	3,5	Ø 11,1 x P 33,3	4	150 ~ 190	-	460
20000	1460	285	660	1100	-	3,5	3,5	Ø 11,1 x P 33,3	6	150 ~ 190	-	850
30000	1650	600	655	894	130	3,5	3,5	Ø 11,1 x P 33,3	10	175 ~ 190	-	1320
Layout : Hand chain block ZHV with short headroom geared trolley for curved beam (HPNB)												
1000	652	123	304	448	-	2,5	2,0	Ø 6,3 x P 19,0	2	75 ~ 125	1000	98
Layout 3 : Hand chain block ZHV with short headroom push trolley for curved beam (HPNB)												
1000	652	123	304	448	-	2,5	2,0	Ø 6,3 x P 19,0	2	75 ~ 125	1000	93

PLV®

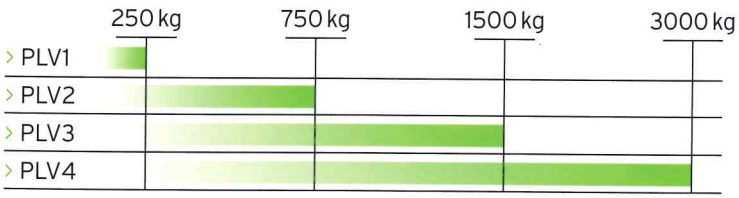
Hand lever block for loads of 250 to 3,000 kg

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,...

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®

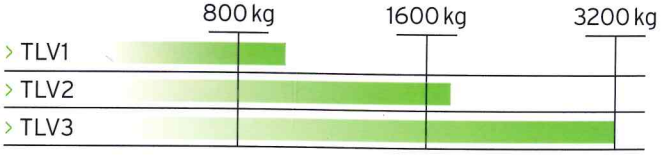
Manual lever winch for loads of 800 to 3,200 kg

The TLV winch is designed to lift and pull loads over long distances.

Technical characteristics

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

Load capacity



Winch type MV

Winch type ME

MV & ME

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

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.

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
Max and min use temperature	- 20°C to + 40°C										

MT®

Manual winch for loads of 150 to 300 kg

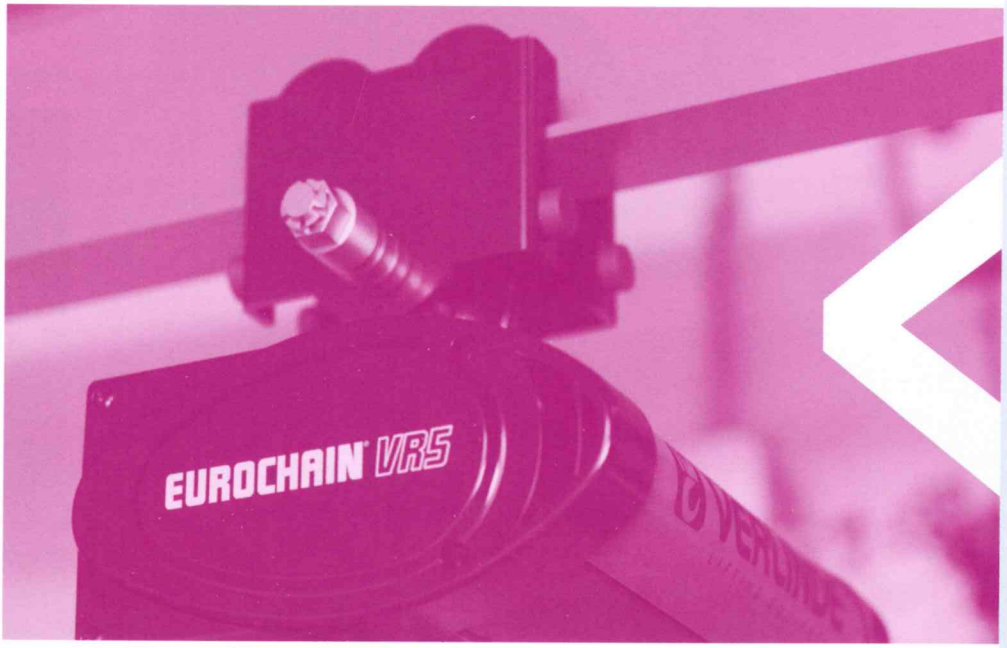
Technical characteristics

› A new generation, compact winch taking advantage of the qualities of composite materials and aluminium, especially their anti-corrosion properties.
› Easy to wind. Planetary reducer in a sealed casing.
› Clutchable, vacuum drum, associated with a failsafe system in the rope wind direction (patented).
› Automatic brake.
› With stainless steel spring and pawls.
› Removable crank. Ergonomically and comfortably shaped crank grip.
› Large rope release range (more than 250°).
› High force/compact and density ratio.

Load capacity (kg)	Winding (m)	Winch type MT	Stainless steel and steel rope (mm)
150	24	*Fixation plate, spring and radchet in stainless steel	4
150 inox*	24		4
300	8,5		5
300 inox*	8,5		5

Trolleys and accessories

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



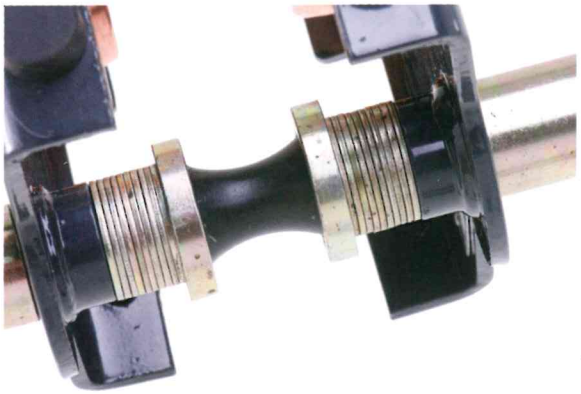
CHD-CHDD
CHZ
CHZ INOX
CHV
PRD-PRV
PAP
LIMITER
PEV
EQUIBLOC
PAL

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.



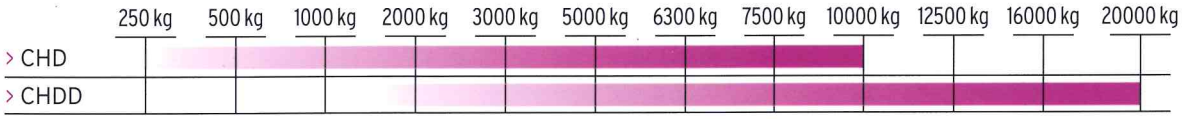
Technical characteristics

› 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



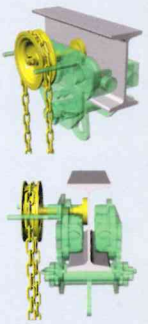
CHZ®

Manual travel trolley for loads from 1,000 to 100,000 kg

Technical characteristics

- Can be used with any type of overhead hooked lifting device.
- Operated by directly pushing the load (CHZD models) or using a handwheel and chain (CHZDD models).
- Epoxy Painting (min. 50 µm).
- Easily adjustable to fit beams.
- Steel rollers machined for smooth movement.
- Trolley body made of high-resistance steel.
- Rollers compatible with all sorts of I and H beams.
- Wheel ball bearings are moisture-tight and maintenance free.
- Galnanized hand chain on CHZDD type.
- Loads up to 100 tons.
- Delivered with CE certificate.

Locking device on trolley



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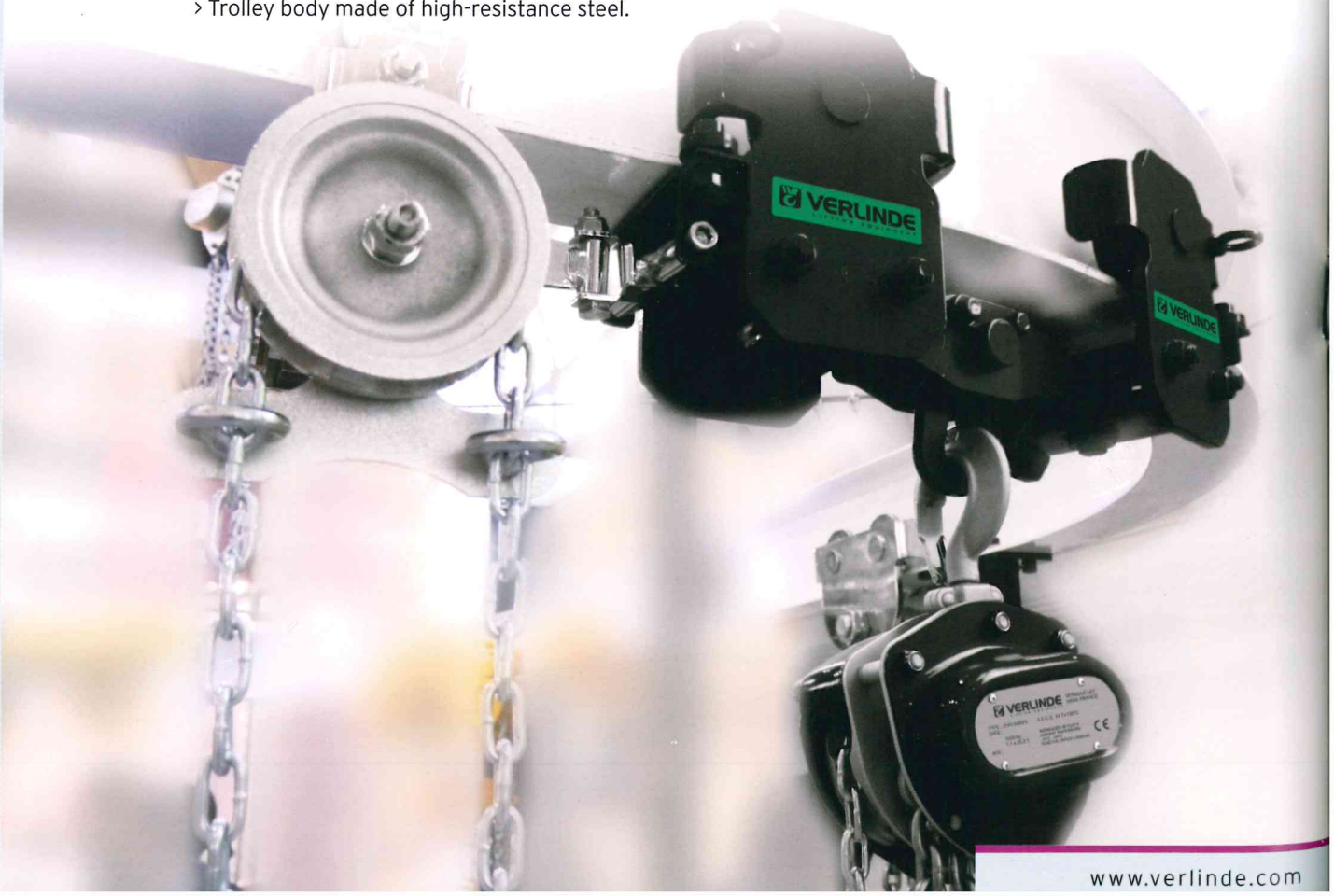
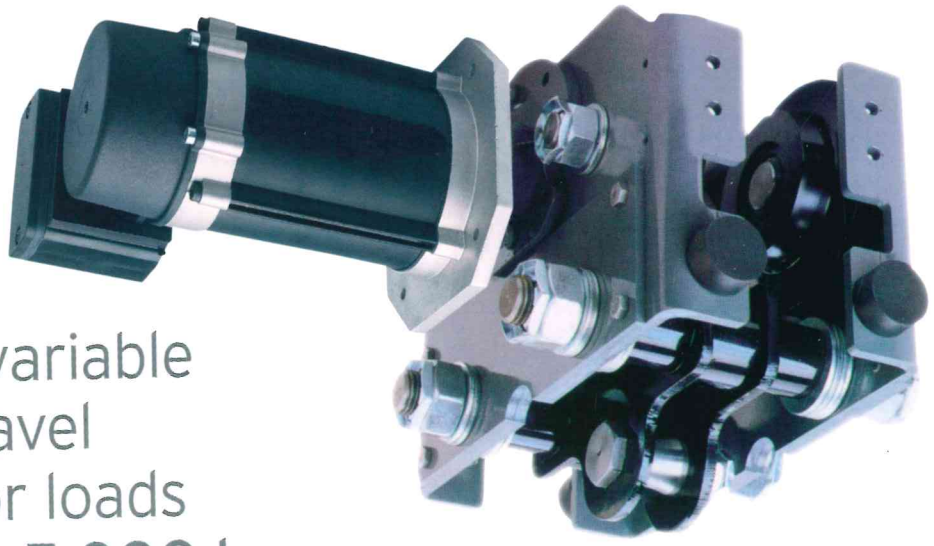


CHV®



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

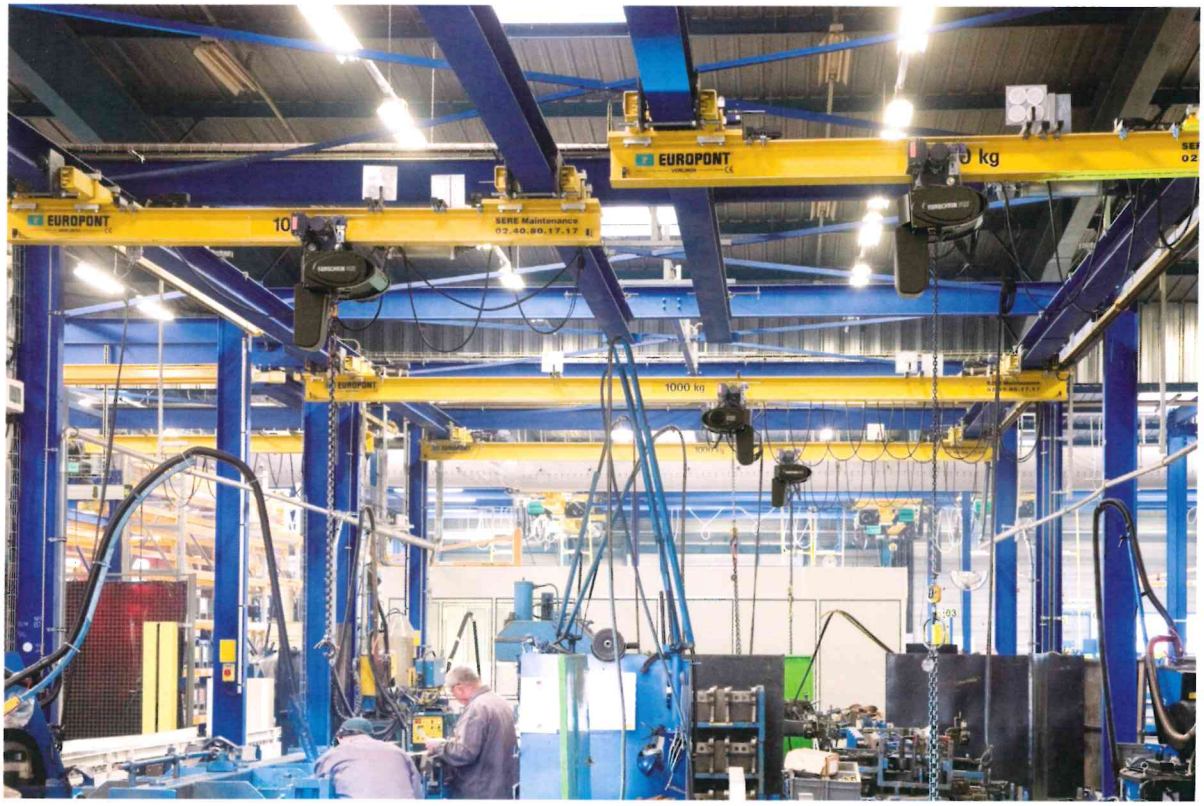
- The CHV enables any type of hoisting device to be hung.
- Variable travel movement speed 5 to 20 m/min.
- Gap between flanges adjustable enabling it to be adapted to all types of IPN, IPE, HEA or HEB straight or curved profiles.
- 4 rubber stops
- Trolley complete, ready to connect up.
- IP 55, class 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 or 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 steps.
› Other three-phase types of power supply.
› Version with hooking crosshead.

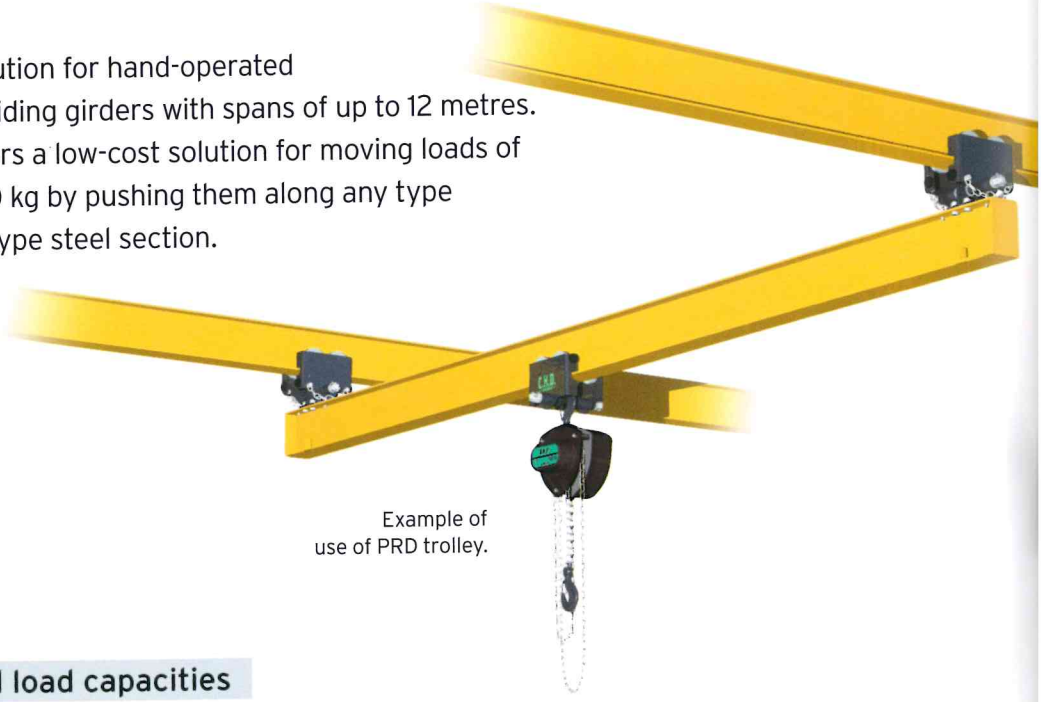


PRD® -PRV®

Trolleys designed for hand-operated articulated sliding girders system for loads of 250 to 2,000 kg

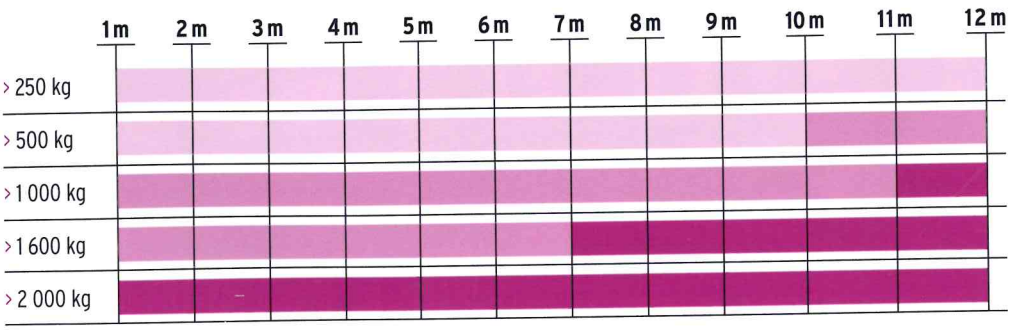
Trolleys designed for electrically powered articulated sliding girders for loads of 250 to 2,000 kg

The ideal solution for hand-operated articulated sliding girders with spans of up to 12 metres. The PRD offers a low-cost solution for moving loads of 250 to 2,000 kg by pushing them along any type of monorail type steel section.



Example of use of PRD trolley.

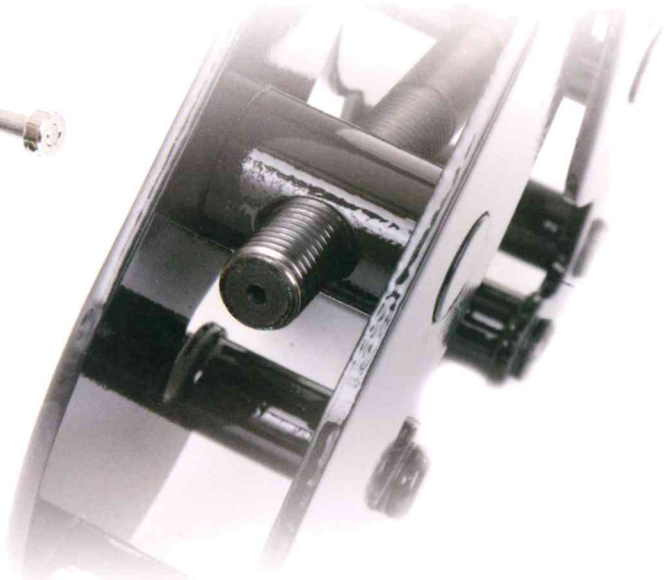
Span and load capacities



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

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.

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 digit on 5 LED display.
- Infra-red remote control.
- Preselection of load.
- Intensive use batteries.
- Tropicalisation and IP 65 protection.
- Stainless steel version of gauge available.
- Printer integrated in gauge.
- Radio link.

EQUIBLOC®

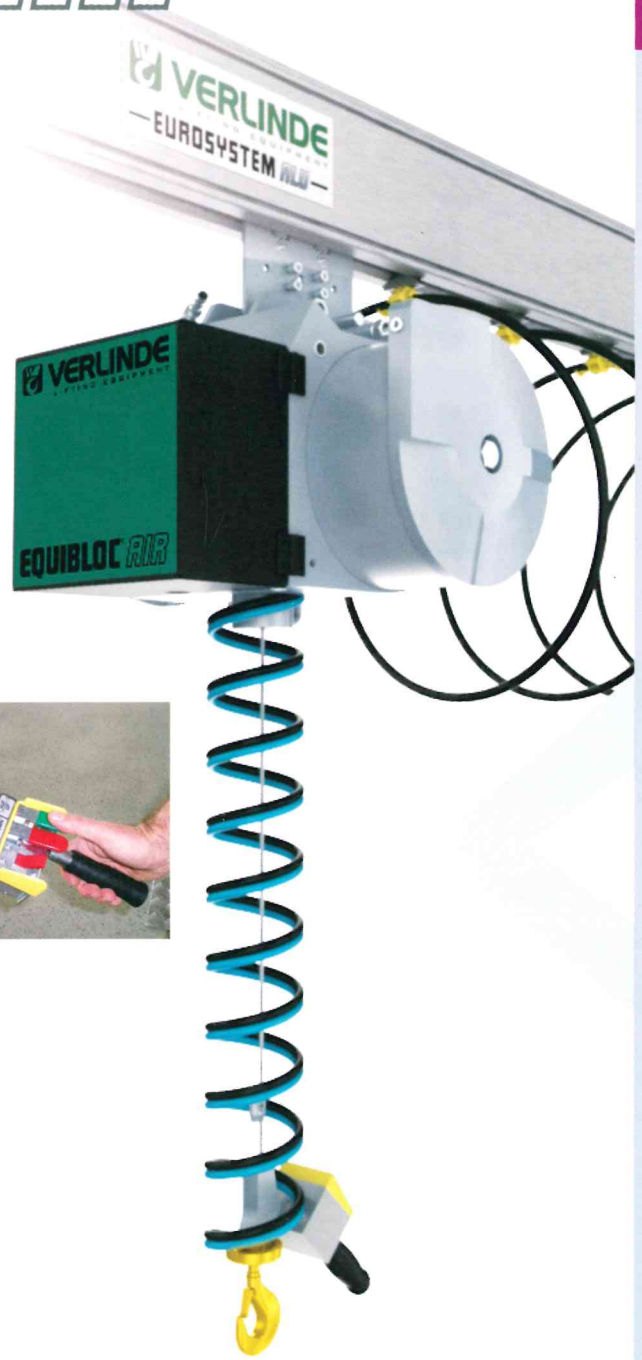
Range of load balancers for loads of 0,7 kg to 55 kg

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.

EQUIBLOC AIR®

Range of air load balancers for loads from 70 to 350 kg*

With EQUIBLOC AIR®, a full range of pneumatic load balancers, VERLINDE offers comprehensive lifting and handling solutions for industry.



Technical characteristics

VERLINDE, EQUIBLOC AIR® pneumatic load balancers come with the following standard equipment : lift and lowering control circuit, 6m of cable, spiral flexible control conduit, valve-box type control interface and an automatic hook.

The following special safety features are also standard : pneumatic measurement load balancing, lift and lowering control unit with balancer mode switch, under-load detection, grip locks (where applicable) if load is lift and with safety valve to keep pressure in tank if the control tube is cut.

The EQUIBLOC AIR® range includes five models of load balancers for loads from 70 kg à 350 kg*.

Options available

› Different trolley types depending on beam used (eg -beam or profile type EUROSYSTEM aluminum)
› Rigid suspension systems
› Pneumatic tubing
› Tube carrier trolleys
› Load gripping tools (eg mechanical, vacuum, magnetic) according to your specifications
› Special models available suitable for use in hazardous areas (Zones 1 or 21)

Range

Type	Control type	Lifting capacity*	Lifting height	Piston diameter	Piston length	Weight**
VEA 70-2000B	DPLSK-SP-BLIL- HS	70 kg	2000 mm	160 mm	520 mm	27 kg
VEA 120-2000B	DPLSK-SP-BLIL- HS	120 kg	2000 mm	200 mm	520 mm	35 kg
VEA 120-3000B	DPLSK-SP-BLIL- HS	120 kg	3000 mm	250 mm	520 mm	40 kg
VEA 160-2000B	DPLSK-SP-BLIL- HS	160 kg	2000 mm	250 mm	520 mm	40 kg
VEA 225-1800B	DPLSK-SP-BLIL- HS	225 kg	1800 mm	250 mm	520 mm	42 kg
VEA 350-1200B	DPLSK-SP-BLIL- HS	350 kg	1200 mm	250 mm	520 mm	40 kg
VEA 350-2000B	DPLSK-SP-BLIL- HS	359 kg	2000 mm	250 mm	720 mm	45 kg

* Lifting capacity with 7 bar input pressure, measured at the balancer piston.
** Weight without control circuit and trolley.

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

GANTRIES CRANES

MANUAL 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.

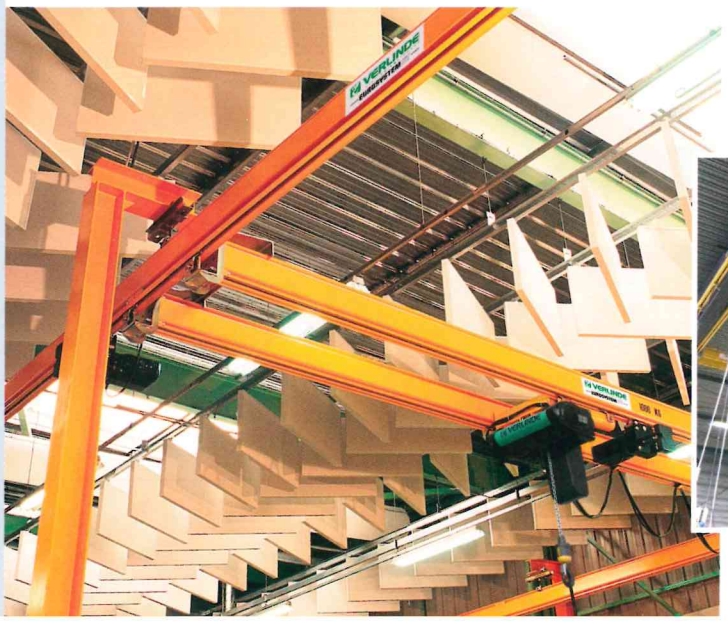
Technical characteristics

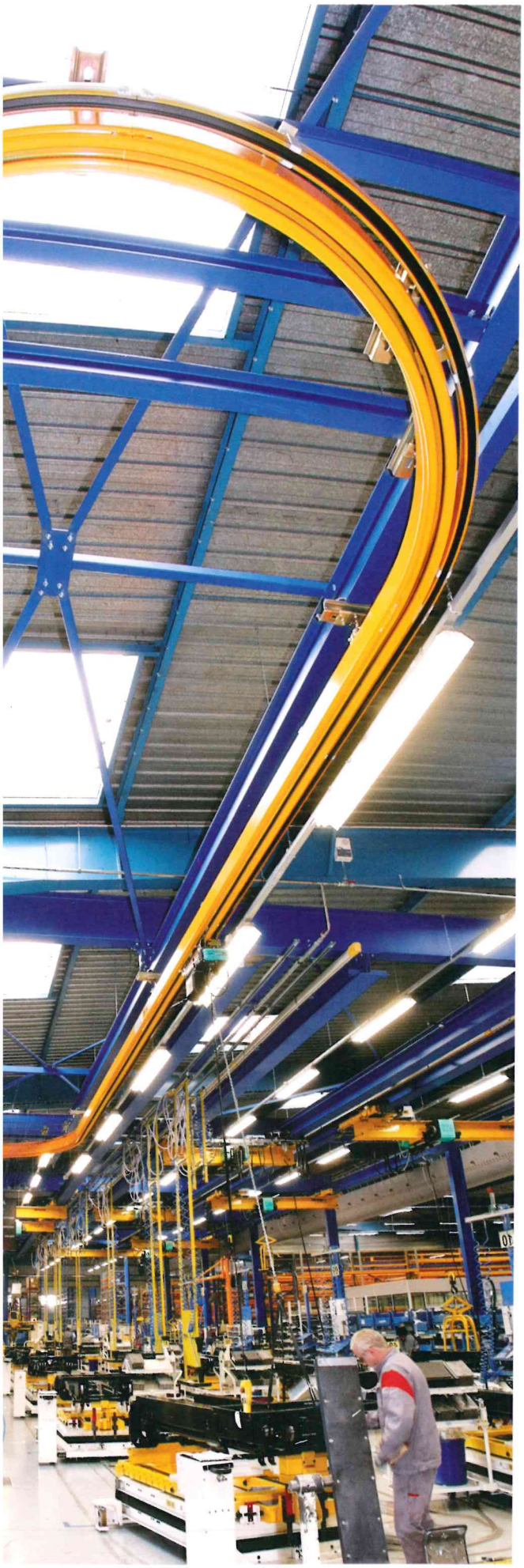
An graded range of hollow sections providing excellent headroom. The EUROSYSTEM consists of three different models, the use of which is determined by the load capacity and distance between the suspension points :

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

Unquestionable advantages

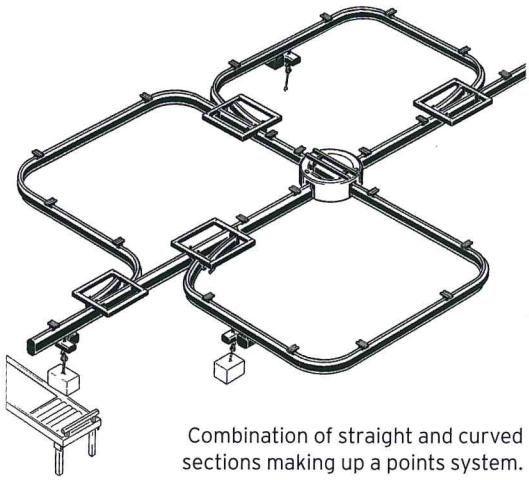
› The loads are easy to handle, thanks to an excellent rolling coefficient.
› The load on the bearing structure is kept to a minimum through the pendular design of the system.
› Maintenance is practically zero.
› Installations are pleasing to the eye.
› Great flexibility.
› Minimum loss of headroom.
› 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.



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

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.

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

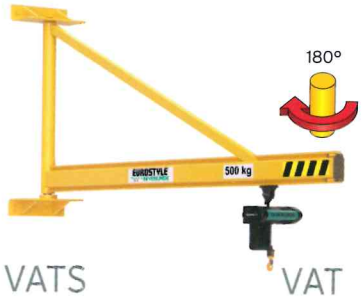
- All-steel design in compliance with DIN 15018 standards.
- IPE section or EUROSYSTEM hollow section jib arm, withstanding torsional stresses.
- Manual trolley with underhung hoisting tackle delivered as standard equipment on hollow section boom.
- Service temperature: -10° to +40° C.
- Presentation : 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

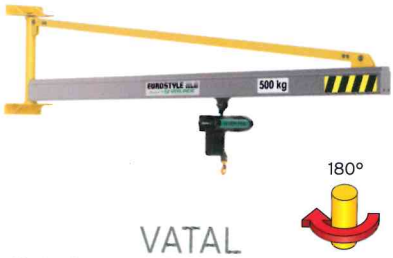
Wall-mounted (secured to the wall or a mast post).

Triangular design



VATS
63 à 2 000 kg - Portée de 2 à 8 m suivant la charge

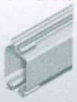
Boom in EUROSYSTEM ST type hollow profile.



VAT
125 à 2 000 kg - Portée de 2 à 8 m suivant la charge

IPE section boom.

VATAL
125 à 2 000 kg - Portée de 2 à 8 m suivant la charge



Boom in EUROSYSTEM ALU type hollow profile.

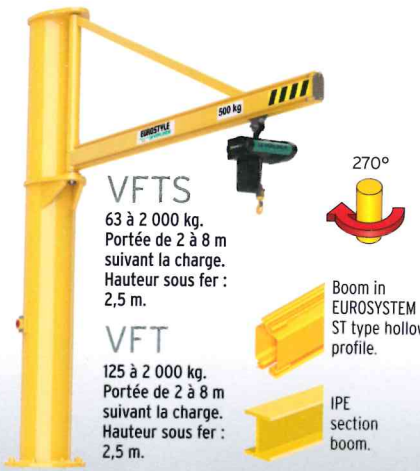
Inverted design

VAI
125 à 4 000 kg - Portée de 2 à 7 m suivant la charge

IPE section boom.

Column mounted partially slewable.

Triangular design



VFTS
63 à 2 000 kg.
Portée de 2 à 8 m suivant la charge.
Hauteur sous fer : 2,5 m.

VFT
125 à 2 000 kg.
Portée de 2 à 8 m suivant la charge.
Hauteur sous fer : 2,5 m.

Boom in EUROSYSTEM ST type hollow profile.

IPE section boom.

VFTAL
63 à 2 000 kg. Portée de 2 à 8 m suivant la charge.
Hauteur sous fer : 2,5 m.

Boom in EUROSYSTEM ALU type hollow profile.

Inverted design

VFI
125 à 2 000 kg. Portée de 2 à 7 m suivant la charge.
Hauteur sous fer : 3 m.

IPE section boom.

Column mounted 360° slewable.

Manually slewable

VFP
125 à 10 000 kg. Portée de 2 à 12 m suivant la charge.
Hauteur sous fer : 3 m.

Option :
Motorisation potence VFM

IPE section boom.

EUROSTYLE®

"Templier" type manual jib cranes with articulated arms

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.

Templier TC Premium

Loads of 50 to 1,000 kg.
Span from 2 to 5 meters according load.
Height under eye : 3m.

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.

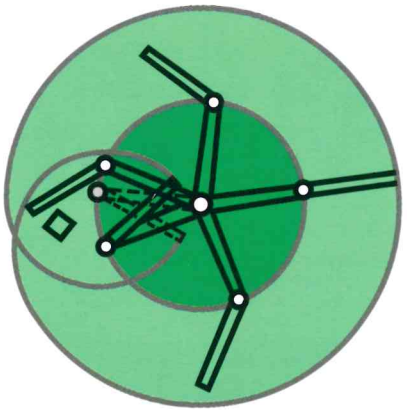
The characteristics of all our cranes (overall dimensions, weight, boom length and foundations) are indicated in our technical sheets.

Templier TCC Eco

Loads of 125 to 250 kg.
Span from 2 to 5 meters according load.
Height under eye : 3m.

Jib crane mounted on column.

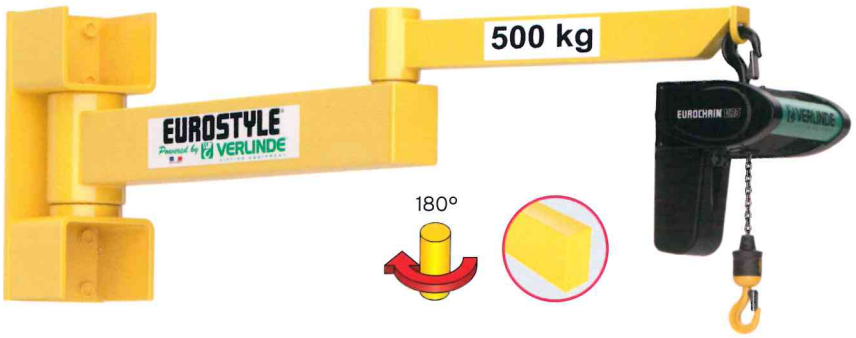
Entirely independent from the building, anchored to the ground. This crane can serve an almost circular working area with a maximum radius of 5 meters.



Working radius of "Templier" jib crane.

Jib crane mounted on bracket.

This crane serves an almost circular working area with a radius of 5 meters (secured to a wall or mast post).



Templier TA Premium

Loads of 50 to 1,000 kg.
Span from 2 to 5 meters according load.

Templier TCA Eco

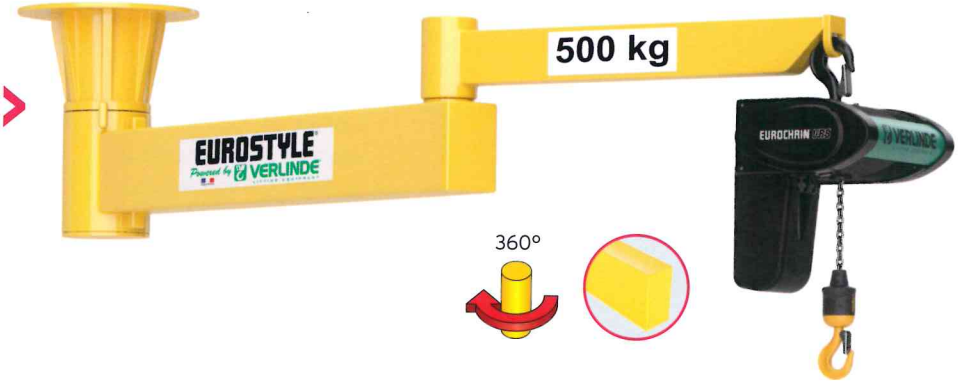
Loads of 125 to 250 kg.
Span from 2 to 5 meters according load.

Jib crane mounted on roof.

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

Templier TSR Premium

Loads of 500 to 1, 000 kg.
Span from 2 to 5 meters according load.



Options available on Eurostyle jib crane range

- 20A Main switch.
- 32A Main switch.
- Rising cable.
- Rotation slowing device.
- Rotation stops.
- Adjustable rotation stops a = 100 mm.
- Adjustable rotation stops a = 130 mm.
- Adjustable rotation stops a = 180 mm.
- Adjustable rotation stops a = 210 & 250 mm.
- Adjustable rotation stops a = 330 mm.
- Adjustable rotation stops a = 380 mm.
- Adjustable rotation stops a = 420 & l <150 mm.
- Hoists adjustable stops.
- INOX single-position rotation lock.
- Stainless steel multi-position rotation lock.
- Stainless steel axis.
- Sealing of the axis.
- Indoor paint other color than RAL 1028.
- Polyurethan painting RAL1028 on epoxy primer for outdoor use.
- Polyurethan paint with specific RAL on epoxy primer for outdoor use.
- Hot dip galvanizing (up to 6 m).
- Rigging ring.
- Covering for hand chain block.
- Covering for electric chain hoist
- Covering for electric chain hoist + head of slewing.
- Covering for electric wire rope hoist + head of slewing.
- Cover for main switch.
- Motorization.
- Calculation note.
- Additional cable trolley for beam made out i-neam or steel and aluminium profile.
- Steel base column jib crane.
- Others type of packing - Export.

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.

EUROSTYLE
ALUMININIUM
VEFP

360°

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.
› 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.

Gantry cranes

Range of movable gantries for loads from 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.

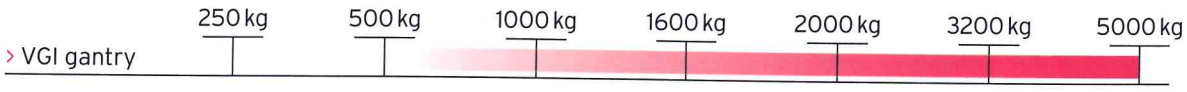
VGI gantry crane

For loads from 500 to 5,000 kg

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



VGIM motorized gantry crane

For loads from 1,000 to 6,300 kg

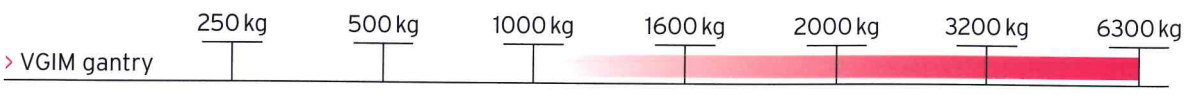
Technical characteristics

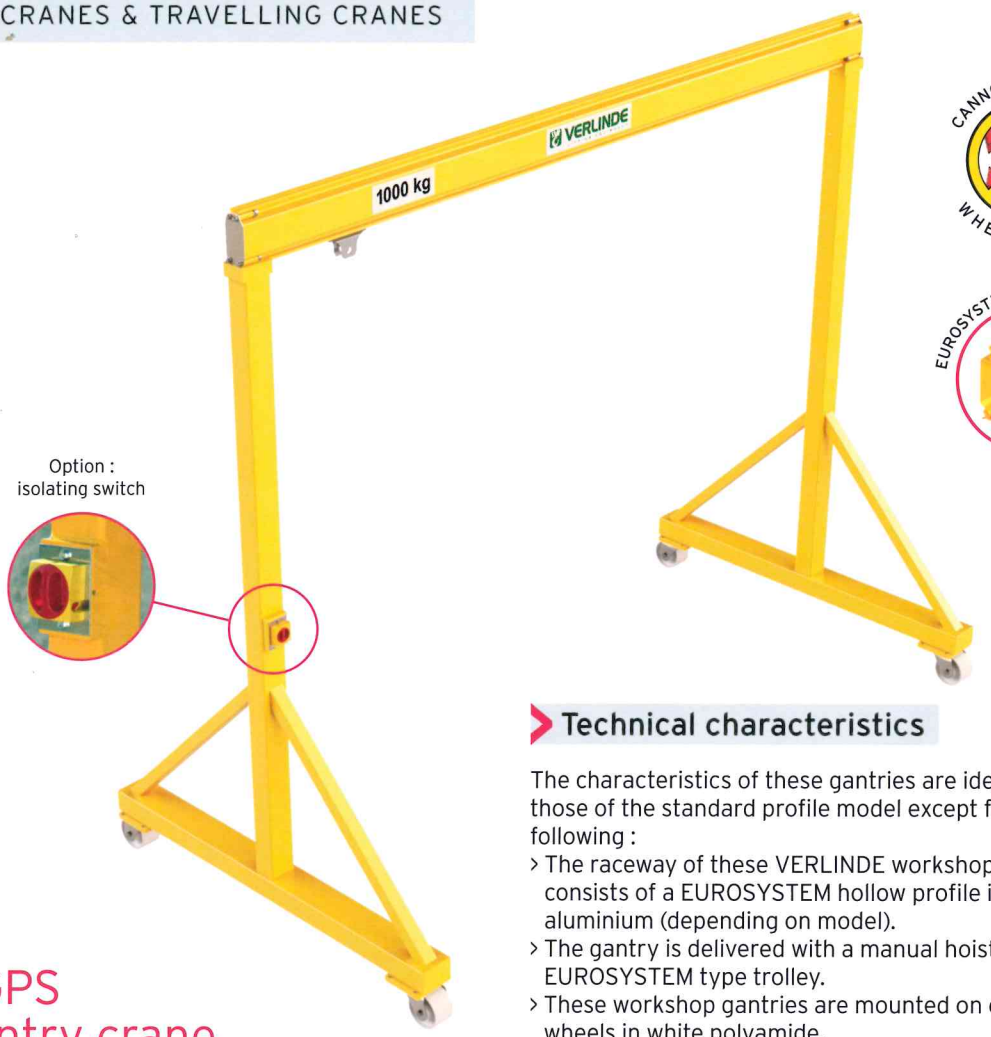
› VERLINDE workshop motorized gantry crane for indoor and outdoor use.
› The VGIM gantry can be moved loaded on a smooth, clean floor.
› Mechanic-welded construction.
› 2 motorized non swivel polyurethane wheels.
› 2 castor polyurethane wheels.
› Electrics in cubicle with movable pendant (low voltage control 48V).
› Dual travelling speed 10 m/min & 20 m/min with inverter.
› Swiveling of the gantry by inversions of the two motors.
› Self rotating with 2 speed.
› Reversing switch on the pendant.
› 4 full stops.
› Protection : 3 layers.
› RAL 1028 yellow polyurethane finish.
› Maximum hoisting speed = 16 m/min.
› Maximum travelling speed = 10 m/min.

Options available

› Main switch.
› Power feeding line.
› Reel 18 m P < 2 kW.
› Reel 18 m P < 7 kW.
› Locking on wheel.

Load capacity





VGPS gantry crane

For loads from 500 to 2,000 kg

Technical characteristics

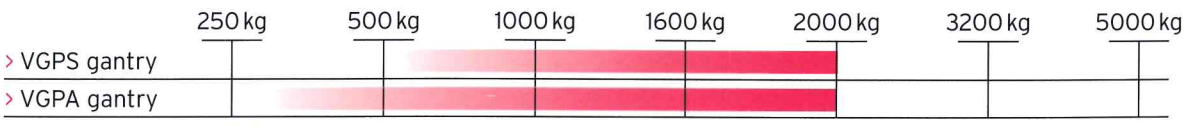
The characteristics of these gantries are identical to those of the standard profile model except for the following :

› 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

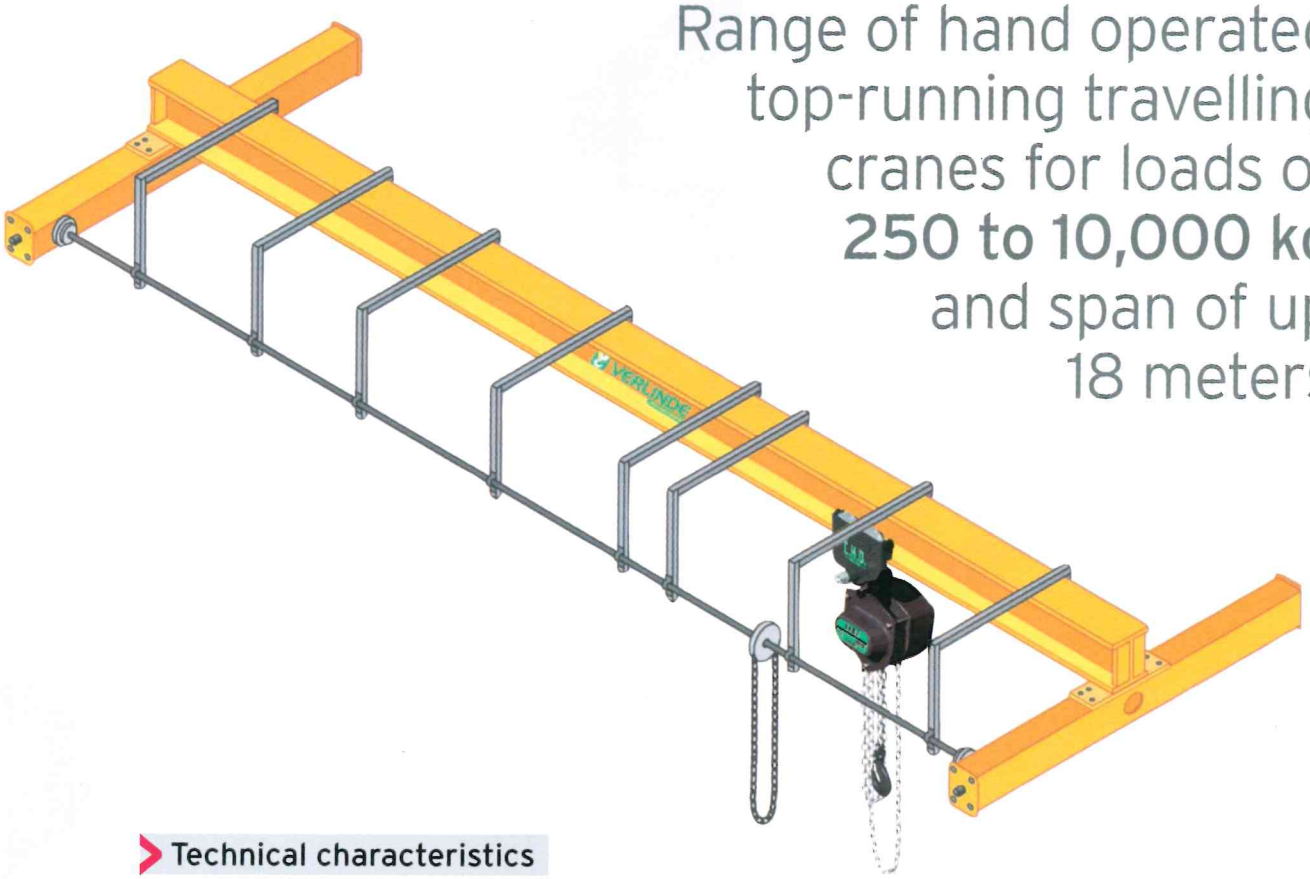
For loads from 500 to 2,000 kg

Load capacity



MANUAL CRANES

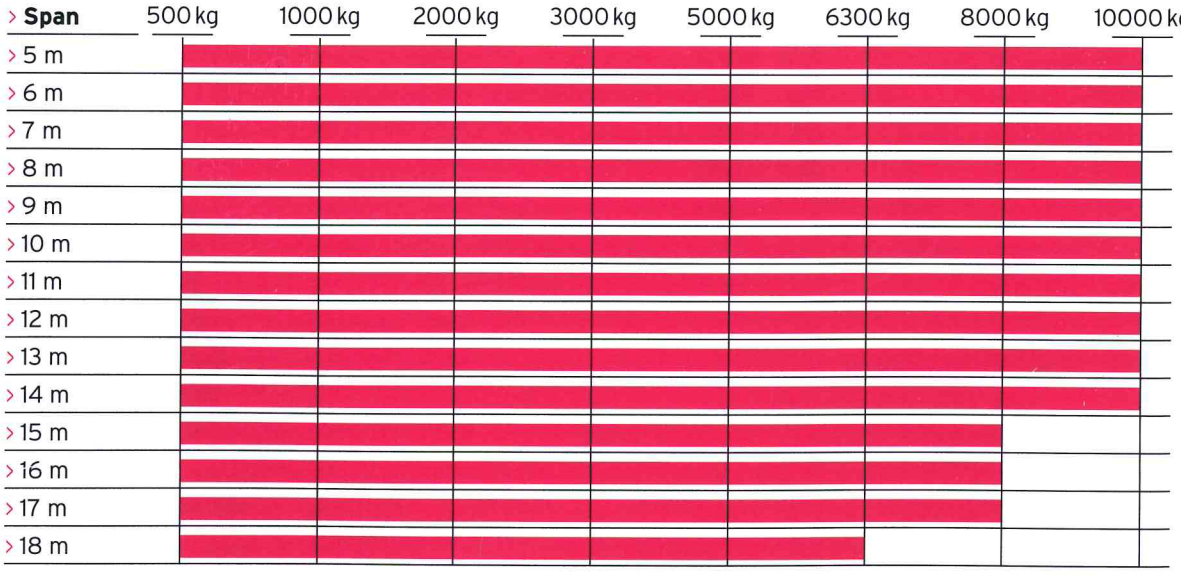
Range of hand operated top-running travelling cranes for loads of **250 to 10,000 kg** and span of up 18 meters



Technical characteristics

› Complete crane delivered ready to erect. 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.
› Paint 24 month guarantee according to Re3 picture 7.
› Delivered with assembly and dimension drawings.

Load capacity

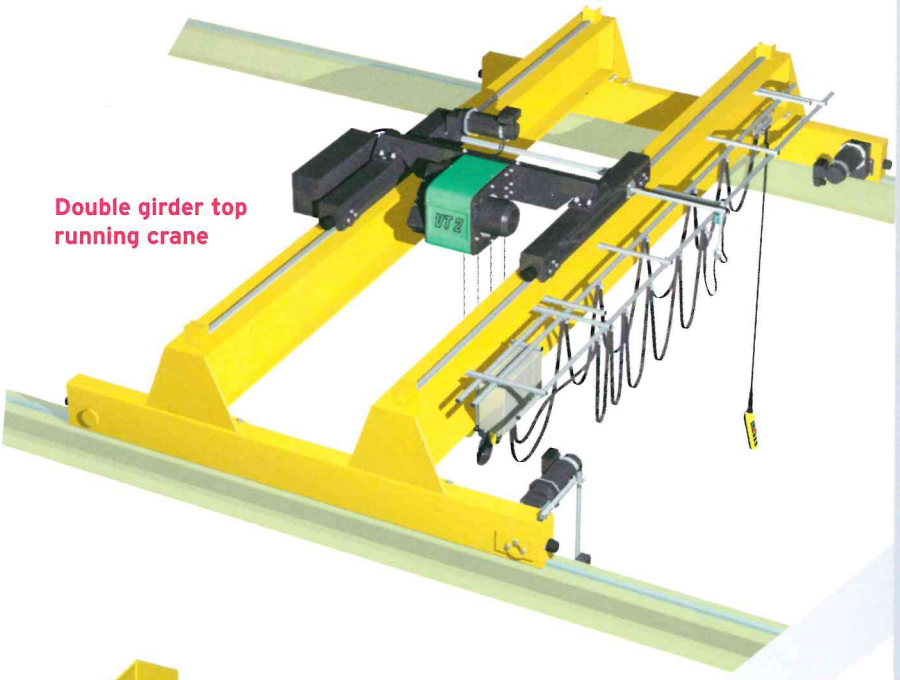


EUROPONT® VERLINDE

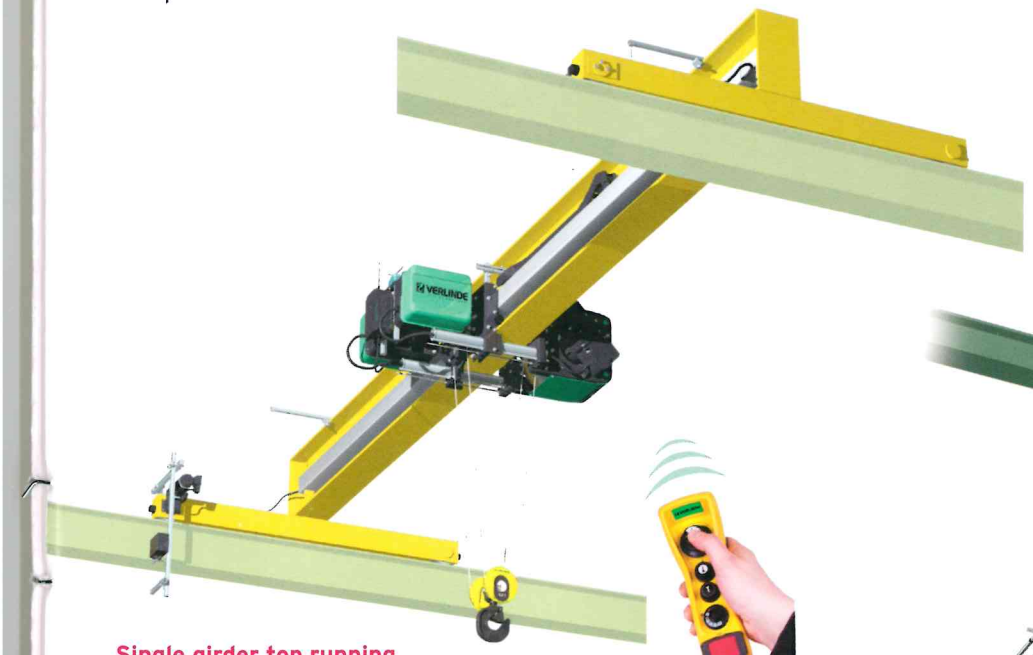
Europont is a network of french, belgium and Netherlands cranes manufacturers.

Range of EUROPONT VERLINDE 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 79.

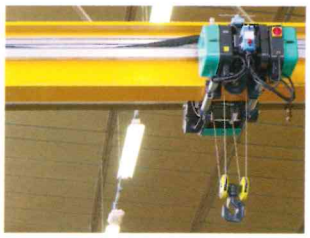
Travelling crane components

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,

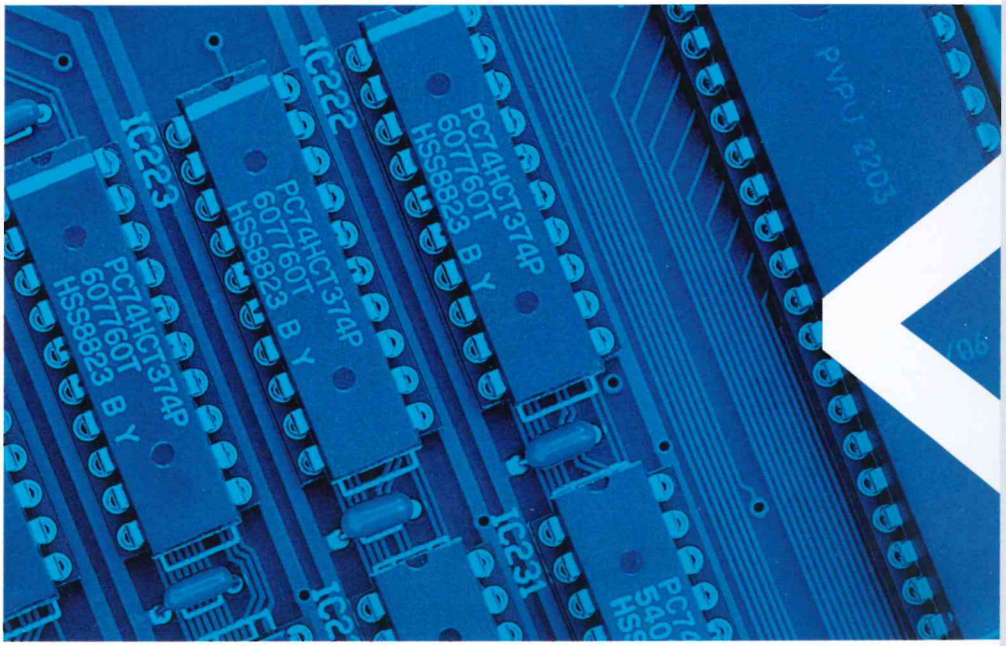
Options available

› 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

DIGIMOTE

MICROMOTE

VARIATOR

ASR - ESR

ESP

EUROMOTE®

Radio remote control system for hoists and travelling cranes

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®

EUROMOTE H®

DIGIMOTE®

VARIATOR®

Travel and lift speed control system for hoists and travelling cranes

VARIATOR speed control systems offer greater operating precision and flexibility for your lifting equipment.

Technical characteristics

VARIATOR speed control systems have been specially designed to be used with EUROBLOC and EUROCHAIN hoisting tackles and VERLINDE crane components.
VARIATOR systems offer, with a single product, a reliable and comprehensive speed control solution (variable speed drive together with its dedicated software, brake management, main breaker, electronic surveillance system, ..) coupled with easy installation and operation.

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. VARIATOR enables the speed to be adapted to suit the load and the user's know-how of the hoisting system and production process.

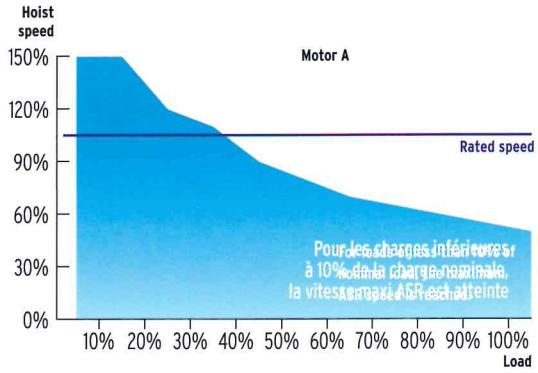
Product advantages

› Reduces the pendulum effect and can even cancel it (ESP option).
› Increases the mechanical life span of suspended cranes and the electrical life span of lift and trolley motors.
› Increases productivity of your hoist station.
› Reduces energy consumption and the size of supply lines.
› Reduces maintenance costs.
› Optimal utilisation of work space
› Smaller investments and faster return on investment.

VARIATOR ASR® & ESR®

ASR®
(Adapted Speed Range)

This option enables hoist speed to be automatically adapted to the hook suspended load.



Basic principle of operation

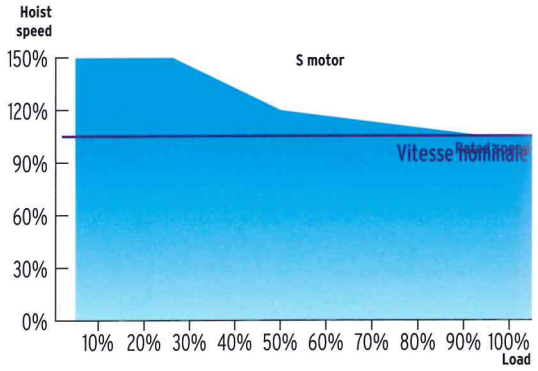
For most applications with type A (ASR) motors (up to 35% of nominal load), you can use the hoist at its rated speed, even above.

Product advantages

› Up to 50% energy savings
› Speed depending on load obtained automatically.
› Productivity and safety enhancement.
› Enhancement of load travel accuracy.
› Best return on investment.
› Optimal use of work space and of approach data of hook.
› Increased motor life span.
› Use of low amperage for crane power supply to reduce the cost of investment in power-feeding systems.
› Depending on standards and local tax systems, grants can be obtained within the framework of energy saving policies.

ESR®
(Extended Speed Range)

This option allows reduction of cycle time (faster return speed for empty returns) therefore of FEM group duty.

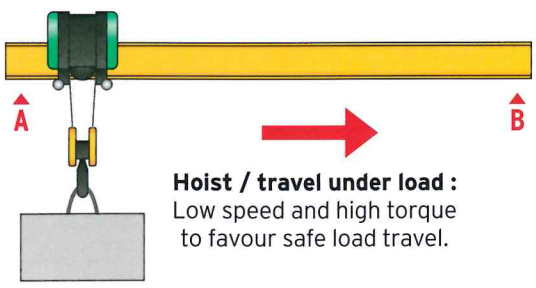


Basic working principle

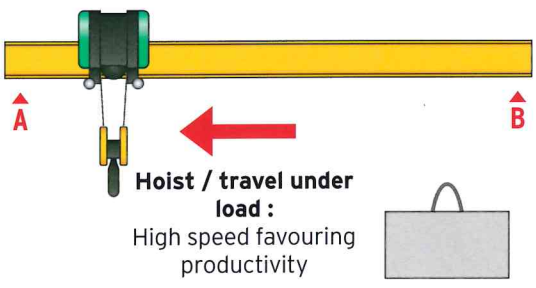
Type S (ESR) motors can be operated at full speed at up to 40% of the rated load, the max. motor speed remaining at 3000 rpm.
At 20% of the load, the rated speed is the equivalent of 150% of listed speed. With nominal load, the rated speed is the equivalent of the listed speed.

Product advantages

› Maximum ESR speed, 1.5 times greater than standard speed.
› Productivity enhancement.
› Enhancement of load travel accuracy.
› Optimal use of work space and approach data of hook.



Hoist / travel under load :
Low speed and high torque to favour safe load travel.



Hoist / travel under load :
High speed favouring productivity

ESP®

Automatic load swinging (pendulum) correction system

The effects of the swinging of loads (pendulum effect) travelling under a suspended crane were traditionally reduced if the operator had enough experience to manage load inertia movement during travel.

Basic working principle

The principle of the control of load swinging is based on the calculation of swing movement time and lifting height.
ESP calculates and automatically corrects the to-and-fro movements of the hook suspended load.

Product advantages

- Easy parameterization of over length slinging from the control interface.
- Increased productivity of the hoist station.
- ESP allows the user to make use of the whole of the work space; swing correction is achieved throughout load travel whatever the height and position of the load.
- Enhanced safety for the user personnel of the hoist station.
  The operator can concentrate on the load to be shifted and not on the movements of the travelling crane.
- Reduction of maintenance coats (reduction of the effects of mechanical stress on the structure and electrical stress on the motors)

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 0,7 to 55 kg.
EUROBLOC®. Electric wire rope hoist for loads of 800 to 250,000 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, consructed 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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