

Electric belt hoist for load from 500 up to 5000 kg



The leading French manufacturer of lifting equipment

VERLINDE is the leading French manufacturer of hoisting equipment, capable of mass producing belt, cable and chain hoists, winches, jib cranes and bridge crane components, at its VERNOUILLET plant. From CAD / CAM design to execution, manufactured with amongst the most up-to-date machining facilities in any plant in Europe and backed by the skill and know-how of our experienced personnel, each hoist bearing the **VERLINDE** logo is a warrant for the user of both reliability and quality.



New products, new concepts

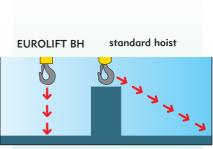
Attuned to the needs of its customers, **VERLINDE** has designed this belt hoist for customised applications in a wide variety of sectors such as the food industry, chemicals, the precision industries and, indeed, any environment where hygiene and safety are of utmost importance to quality production.

VERLINDE has always been amongst the first to introduce new ideas in operation of hook hoisting units.

The **EUROLIFT BH** electric belts hoist has been designed with this resolutely innovative attitude, as witnessed by the fact that its design alone has given rise to 3 patents.

The **EUROLIFT BH** is today the only belt and hook hoisting unit offering you the following features in its standard version:

- Hoisting belt: high strength belt with high safety factors, easy and quick to replace, thanks to its design.
- Two mechanically variable hoisting speeds.
- Belt guide: enhanced safety features against side pulling and twisting effects during lifting movement.
- Hoisting and control features complying with IEC 34.1/IEC 34.2, IP 55 protection and class insulation standard.
- Totally enclosed, high precision, silent and sealed reduction gear.
- Adjustable upper and lower limit switches.
- Travelling limit switches.
- •Load limiter, safety feature protecting against excessive overloading of the pulley and runway path. (mandatory, to comply with the "MACHINES" Directive).
- Very low "C" dimensions and hook "approaches".
- True vertical lift (vertical movement of hook block when hoisting)
- and yet more features that you will find in the following pages ...







EUROLIFT BIT

Electric belt hoist for load from 500 up to 5,000 kg

Customised installations



Fixed version

These hoists do not have a trolley and are designed for applications where no horizontal travel is needed.

Maximum capacity: 5.000 kg.

Monorail short headroom powered travel trolley (HPR)



These hoists feature a trolley (for moving the load in the horizontal direction) with a design enabling the user to make optimum use of the headroom and working area available for your job.

Maximum capacity: 2.000 kg.



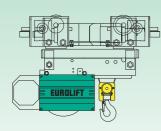
Monorail short headroom hand-push travel trolley (HPR)

These hoists feature a trolley (for horizontal movement of the load) with a design enabling loads of up to 5000 kg to be moved with optimised hoisting height.

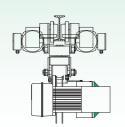


Monorail trolley into EUROSYSTEM profile

These hoists feature a travelling trolley(for horizontal movement of the load). They are capable of lifting a load of up to 2000 kg and moving it horizontally in a straight or curved EUROSYSTEM profile.



Monorail powered boggey trolley for curved beams.



Ces palans disposent de chariot (mouvement horizontal de la charge).

Lever une charge jusqu'à 2000 kg et la déplacer horizontalement sur une voie courbe.



EUROLIFT BH "Stainless steel" version

Lifting of loads of up to 2000 kg with horizontal travel in an environment with a high level of relative humidity.

EUROL

Electric belt hoist for load

Gear box



3 steps helical gear, life-lubricated (semi-fluid grease), comprising O-ring seals and lip seal at shaft end (BH2).

Lifting motor



2-speed motor, electromagnetic brake featuring automatic wear compensation. IP 55 protection. Class F insulation

Electric cubicle



- 48V low voltage control.
- Printed circuit for standard voltage.
- •NFE 52070 standard
- •Upper and lower limit switches
- Hoisting motor protected by thermal sensors
- IP 65-protected low voltage control push button box.



Travelling.

ling speeds (20/5 m/min. 10 2,5 m/min and BH2)

for more accurate positioning of your loads

trave-

Belt. Excellent ability to withstand attack by acids, immune to solvents, rot-proof and fire retardant

Electrical cubicle. 48 V control. The cover is equipped with two anti-drop type steel safety cables (BH2) or hinges (BH5).

Belt guide. high safety feature against side pulling and twisting effects during hoisting movement.



Lifting motor. High operating factor ensuring longer service life.

Hook block. Small "C" dimensions and hook "approaches", enabling you to design your building to optimum size and make maximum use of the available working space.

Travel. Travelling motor with IP 55 protection and type F insulation, ensuring maximum service life.

Ergonomics

Push button box. With in-depth colored polypropylene with double insulation and ergonomic design (IP 65 protection).

New technology





d from 500 up to 5,000 kg





High safety

High technology

Hook block. The hook block moves vertically during hoisting (hoisting is centred). **Belt guide.** No fouling of the guide system, whether used in any type of environment. **Drum.** The very high ratio of the belt diameter/drum extends the service life of the belt. **Electrical cubicle.** Generously dimensioned, comprising all electrical components as standard.

Easy maintenance

Lifting motor. Improved cooling of the motor, thanks to its mounting position outside the hoisting unit.

Motor, trolley gear box. Lifetime-lubricated travel gear box.

Hoisting brake. The brake features automatic compensation of wear and is tested for the service life of the hoist working under normal operating conditions.

Belt guide. "Springless" construction principle, making for easier replacement during maintenance operations.

Electrical cubicle. Mounted on the front face (BH2) or rear face (BH5) of the hoist, featuring ready access and openable by a snap-action system.

Stainless steel version of electric belt hoist for loads from 500 up to 5,000 kg

Power travelling trolley. Wheels, axes and diverter sheaves undergo anti-corrosion treatment to improve protection against external sources of aggression. The side plates of the trolley and spreader and the plates of the structure are hot dipped galvanised. The side plates of the drum and the drum support are hot dipped galvanised

Hook block. Hook, lower cross head and bearing are in stainless steel, for applications in environments with a high level of relative humidity.

Gear box. The gear box mounting is hot dipped galvanised for anti-corrosion protection.



Lifting belt



High strength polyester belt.

Flame-retardant with good dimensional stability and excellent ability to maintain its strength after immersion in boiling water.

Excellent ability to withstand attack by acids.

immune to attack by solvents.

Rot-proof.

BH5: Dynema belt (this belt has the same characteristics as those of the BH2, with a greater safety factor).

Hook block



Possibility of stainless steel hook block and hook.

Overload limiter



The hoist has a load limiter as standard equipment, preventing hoisting in the event of overloads (in compliance with the European "MACHINES" Directive).



Electric belt hoist for load from 500 up to 5,000 kg

Options

The EUROLIFT BH can be equipped with a great many options and can be specifically adapted for special purpose uses:

- Non standard beam section width
- Higher travelling speeds
- Time counter
- **EUROMOTE** type infrared or radio remote-control
- •Travelling movement limit switch
- Trolley mounted on bogies
- Special power supply voltage
- Tropicalised travelling movement and lifting motors
- •Load limiter with 2 or 3 steps
- Stainless steel hook and hook block (**) (*) except BH5.

(**) up to 2.5 T only. 3.2 T and 5 T stainless steel hook block, painted hook.

- Total anti-corrosion protection. (*)
- •Covering roof for protection against rain.
- Horn controlled from push button box.
- Explosion-proof hoist.





Standards and hoisting regulations



Compliance with EC Directive. Since 1st January 1995, the "EC" standard on machines 98/37/EEC, requires manufacturers of machines to harmonise their production to comply with certain provisions,

standards, national rules of practice and technical specifications. Each VERLINDE unit bears the "EC" label and is delivered with an "EC" certificate of conformity (appendix IIA) or has a built-in certificate (appendix IIB.

FEM: The European Handling Equipment Federation.

SWP: Safe Working Period. The "Safe Working Period" of the hoisting unit is determined in terms of average type of use of the hoisting mechanism, load range and utilisation group. After this period has elapsed, the unit must undergo a the general overhaul as prescribed by the maker.

Class of operation. In accordance with FEM classification, two fundamental criteria must be allowed for: the level of load and stress of the hoist, and the operating categories (related to the average daily use and hoisting movement of the unit).

ISO standard. The utilisation groups can also be defined in terms of ISO groups (1Am = M4, 2m = M5, 3m = M6,...).

Load status. Light duty service: the unit is subjected to maximum loads only under exceptional circumstances, with very light loads the majority of the time. **Average duty service:** the unit handles maximum loads fairly often, and frequently light loads. Heavy duty service: the unit is frequently subjected to maximum loads and normally to average loads. **Very heavy duty service:** the unit is regularly subjected to loads approaching the maximum.

Average daily operating time (hours)			0,5		2		4		8		16				
Class of duty			V0,25	T2	V0,5	Т3	V1	T4	V2	T5	V3	T6	V4	T7	
	1	L1	Light					1Bm	МЗ	1Am	M4	2 m	M5	V4	М6
Туре	2	L2	Medium			1B m	МЗ	1Am	M4	2 m	M5	3 m	М6		
of service	3	L3	Heavy	1Bm	МЗ	1A m	M4	2 m	M5	3 m	М6				
	4	L4	Very heavy	1Am	M4	2 m	M5	3 m	M6						

Group			1Bm	М3	1A m	M4	2 m	M5	3 m	M6		
Duty factor*			25 %		30 %		40 %		50 %			
Number of start per hour			150		180		180		24	40	30	00

■ F.E.M. 9511 standards classification ■ ISO standards.

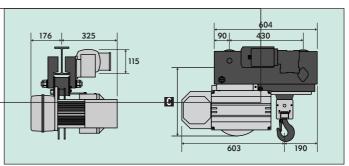


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Technical characteristics

Dimensions of the EUROLIFT BH 2*

Liaint turns	Number	C in mm			
Hoist type	of falls	Standard	Stainless st.		
	2	390	390		
BH2	3	435	465		
	4	400	430		



EUROLIFT range

	S.W.L	F.E.M.			Lifting		Travelling trolley		
EUROLIFT type	5.W.L (kg)	Group	Number of falls	Height of lift (m)	speed (m/min)	Push trolley	Chain drive trolley	Motorized 1 speed trolley	
BH2 02 R3	500	1Bm	2	9,00	20 / 3,3	X	X	X	
BH2 03 R5	500	2m	3	6,00	13/2	×	X	X	
BH2 02 L5	630	2m	2	9,00	10 / 1,6	X	X	X	
BH2 03 R4	630	1Am	3	6,00	13/2	X	X	X	Lifting
BH2 02 L4	800	1Am	2	9,00	10 / 1,6	X	×	×	motor power
BH2 03 R3	800	1Bm	3	6,00	13/2	Х	Х	X	(kW) 1.9 / 0.3
BH2 02 L3	1000	1Bm	2	9,00	10 / 1,6	X	X	X	Travelling motor power
BH2 03 L5	1000	2m	3	6,00	6,5 / 1	X	×	×	(kW) 0.25 / 0.06
BH2 03 L4	1250	1Am	3	6,00	6,5 / 1	X	X	X	
BH2 04 L5	1250	2m	4	4,50	5 / 0,8	X	X	X	
BH2 03 L3	1600	1Bm	3	6,00	6,5 / 1	×	X	X	
BH2 04 L4	1600	1Am	4	4,50	5 / 0,8	X	X	X	
BH2 04 L3	2000	1Bm	4	4,50	5 / 0,8	X	X	X	Lifting motor power (kW)
BH5 04/RN1	2500	2m	1x4	5,90	3,8/0,6	_	_	X	1,9/0,3 3,5/0,5
BH5 04/RN2	3200	1Bm	2x2	8,20	5,9/0,9	-	-	X	Travelling motor
BH5 08/RN2	5000	1Am	2x4	5,90	3,8/0,6	-	-	×	power (kW) 0,55

X: available in this version: -: not available in this version

Range of loads

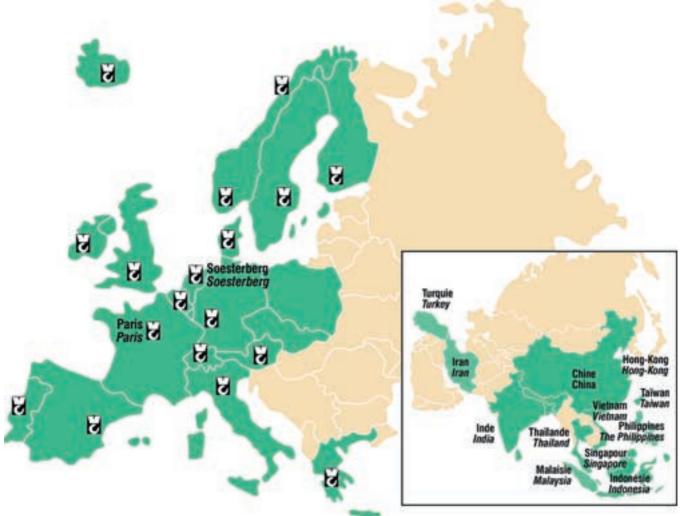
	500 kg	630 kg	800 kg	1000 kg	1250 kg	1600 kg	2000 kg	2500 kg	3200 kg	5000 kg
BH2										
BH5										

Explanation of EUROLIFT BH codification *

BH2	04	L	3
Hoist body type	Number of falls	Hoist gear box type	FEM Group $3 = 1 Bm, 4 = 1 Am,$ $5 = 2 m$

Weight of hoist: 145 (kg).

* For the overall dimensions of the EUROLIFT BH 5, consult us



With VERLINDE, you have:

- The leading French manufacturer and exporter of hoisting and handling equipment.
- The power of a Group employing 5000 persons.
- A continuous product line comprising 30 different models
- Equipment built to the standards of the ISO 9001 quality assurance certification levels.
- A partner for your hoisting and handling needs in over 80 countries.



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In France

9 sales agencies. 14 after-sales service station, 11 "EUROPONT overhead travelling crane production units and a network of dealers.

World-wide

Agencies in Germany, the Netherlands, Belgium and Italy, and dealers in Germany, Argentina, Austria, Spain and Brazil. Chile, Ireland, the United Kingdom, Sweden, Norway, Denmark, China, Thailand, Indonesia, Malaysia, Vietnam, India, the United States.

