

# EUROLIFT

# BH



**Electric belt hoist  
for load from 500 up to 5000 kg**

 **VERLINDE**  
LIFTING EQUIPMENT  
EMMEGIESSE s.r.l.

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# 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.

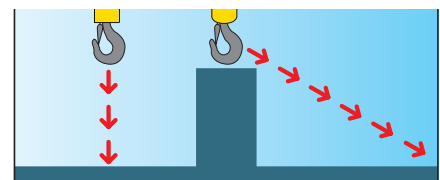
The **EUROLIFT BH** electric belts hoist has been designed with this resolutely innovative attitude, as witnessed by the fact that its design alone has given rise to 3 patents.

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 BH**      **standard hoist**



# EUROLIFT *BH*

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.



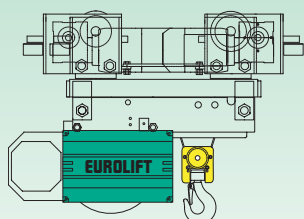
### Monorail short headroom hand-push travel trolley (HPR)

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.



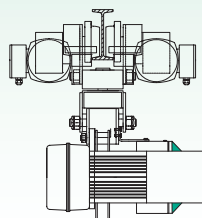
### Monorail trolley into EUROSYSTEM profile

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 boggy 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.

# EUROLIFT

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

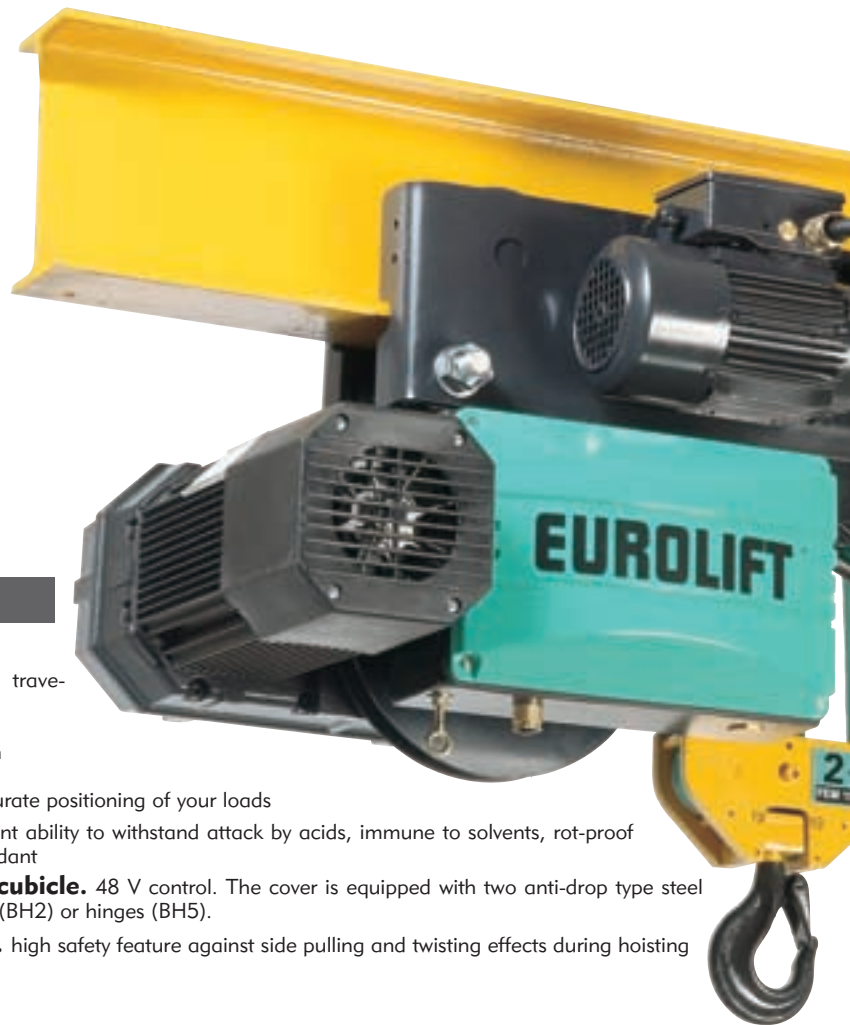


2-speed motor, electromagnetic brake featuring automatic wear compensation. IP 55 protection. Class F insulation.

## 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.



## Safety

### Travelling.

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

for more accurate positioning of your loads

**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.

## Savings

**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





# LIFT BH

loads 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).

# EUROLIFT BH

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

## Technical characteristics

### Dimensions of the EUROLIFT BH 2\*

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

Weight of hoist: 145 (kg).

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

### EUROLIFT range

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

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

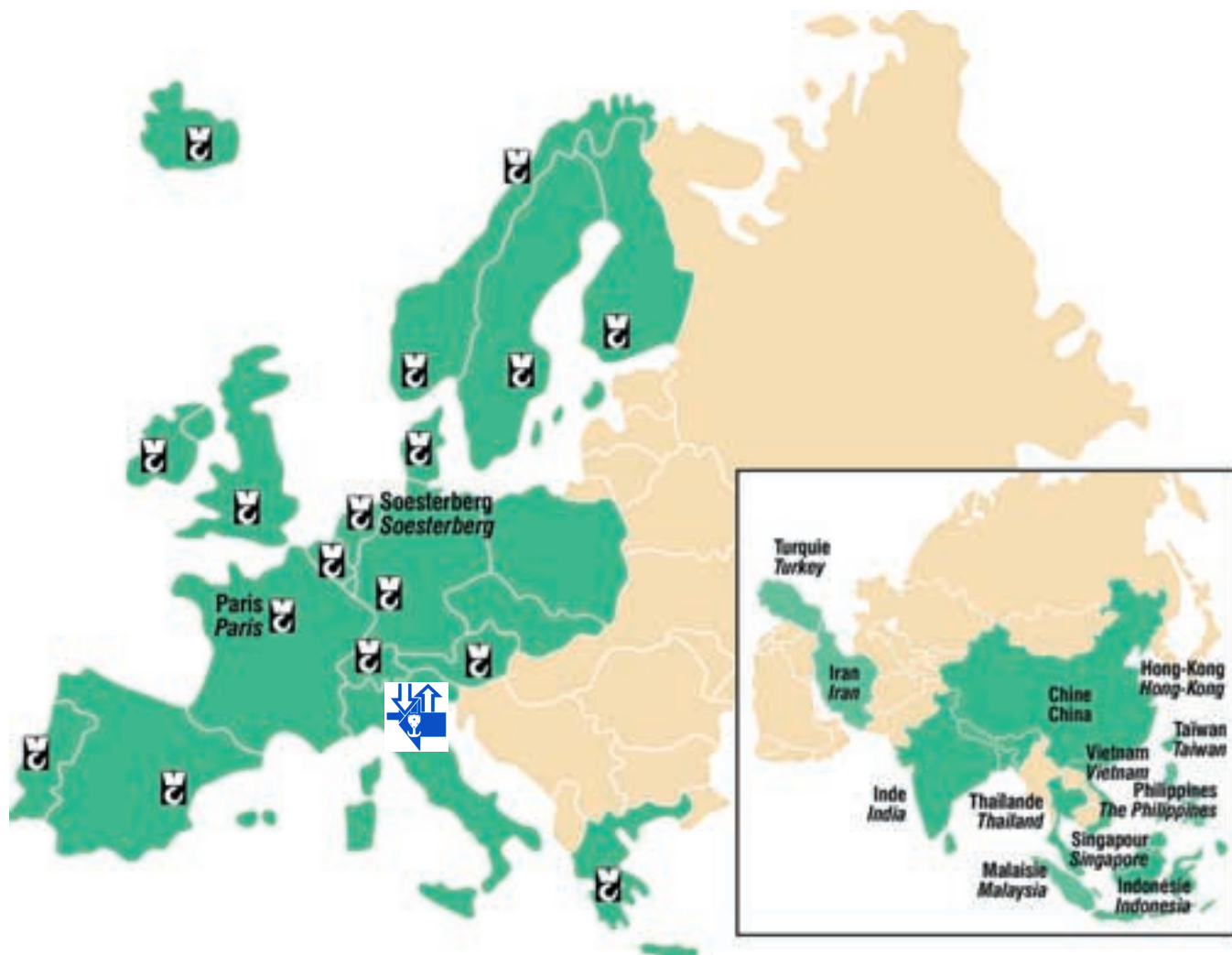
### Range of loads

	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 = 1Bm, 4 = 1Am, 5 = 2m

\*except BH5



### 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.



### 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.



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