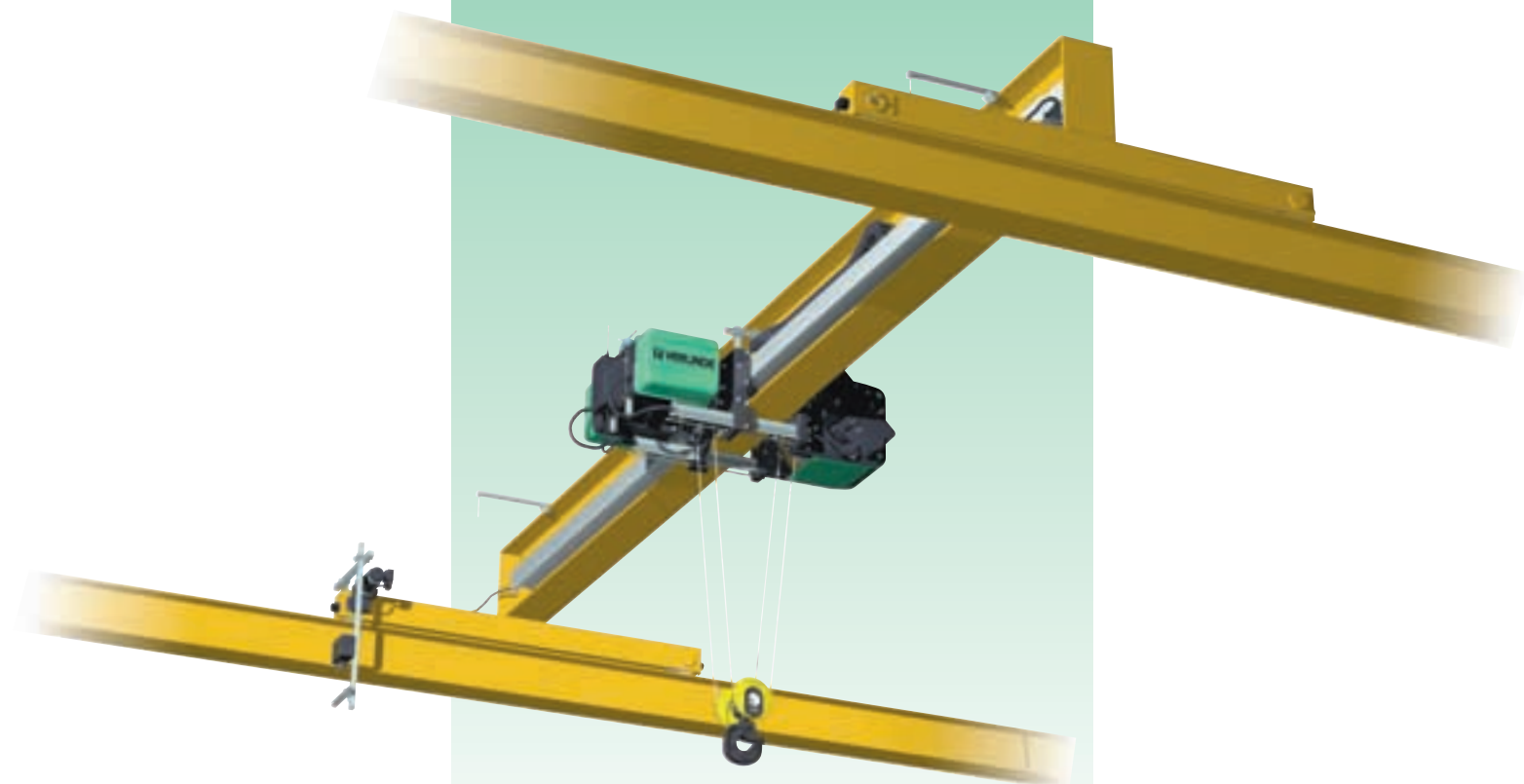


COMPOSANT⁺



**Crane components
for standards cranes**



2, boulevard de l'Industrie - B.P. 59 - 28501 Vernouillet cedex - France

Phone: (33) 02 37 38 95 95 - Fax: (33) 02 37 38 95 99

Internet : www.verlinde.com

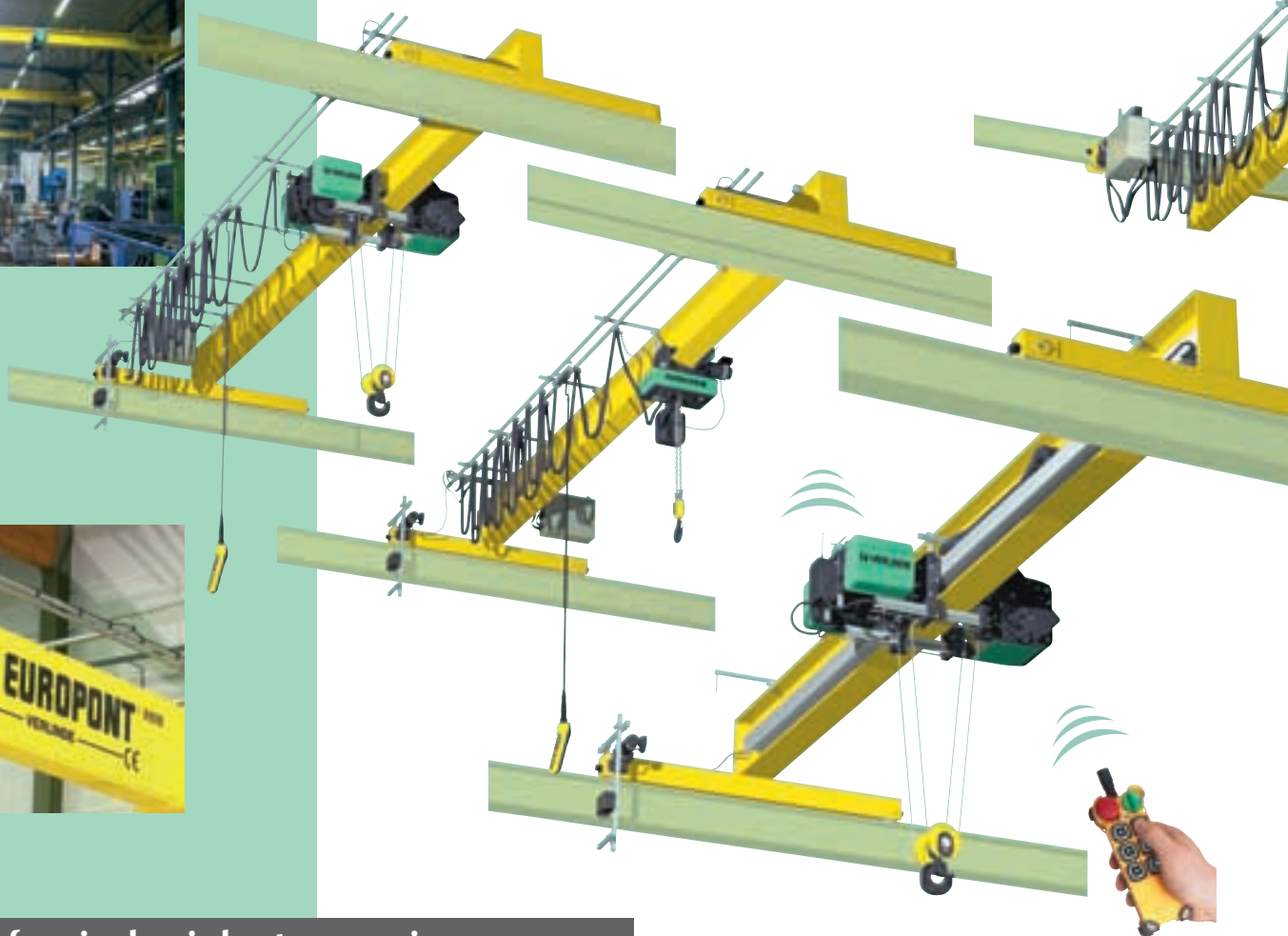
Réf : 09 2002 333 UGB

COMPOS

Complete range of components for standard

A large range of crane components

- High quality and high performance standard crane components
- Enables you to build a complete single or double girder crane in top running or underslung version

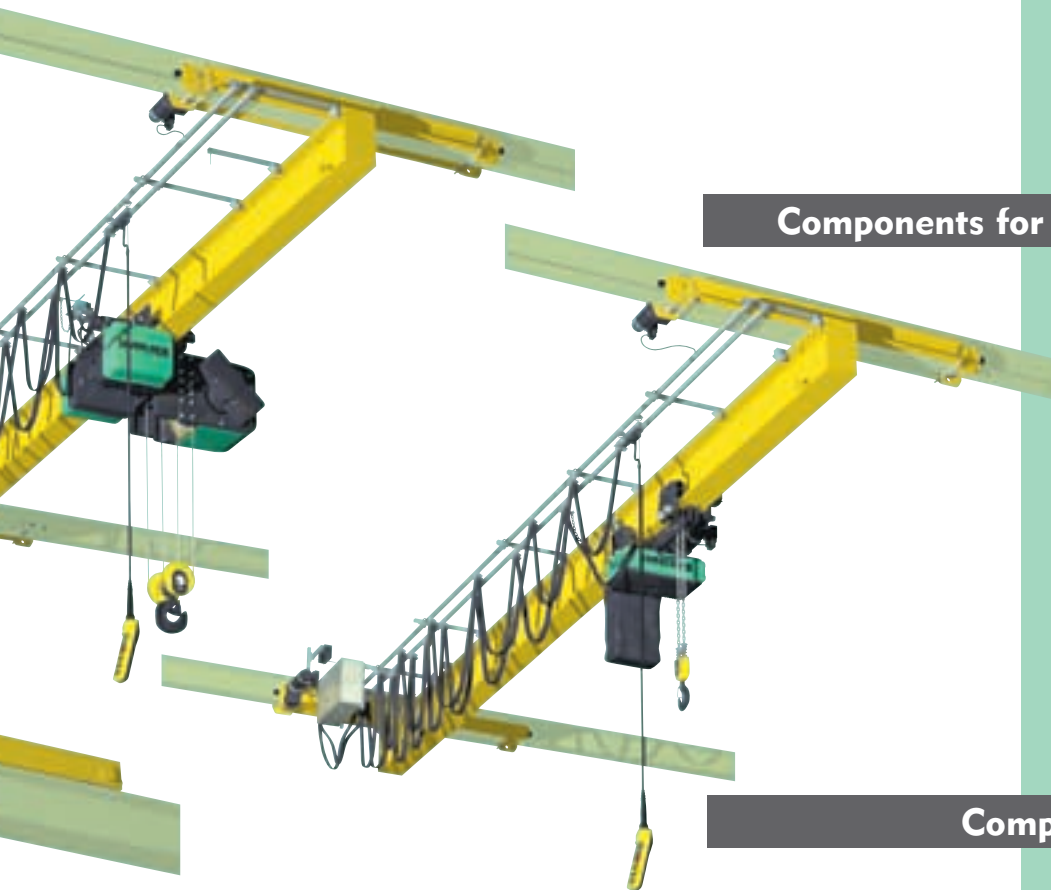


Components for single girder top running crane

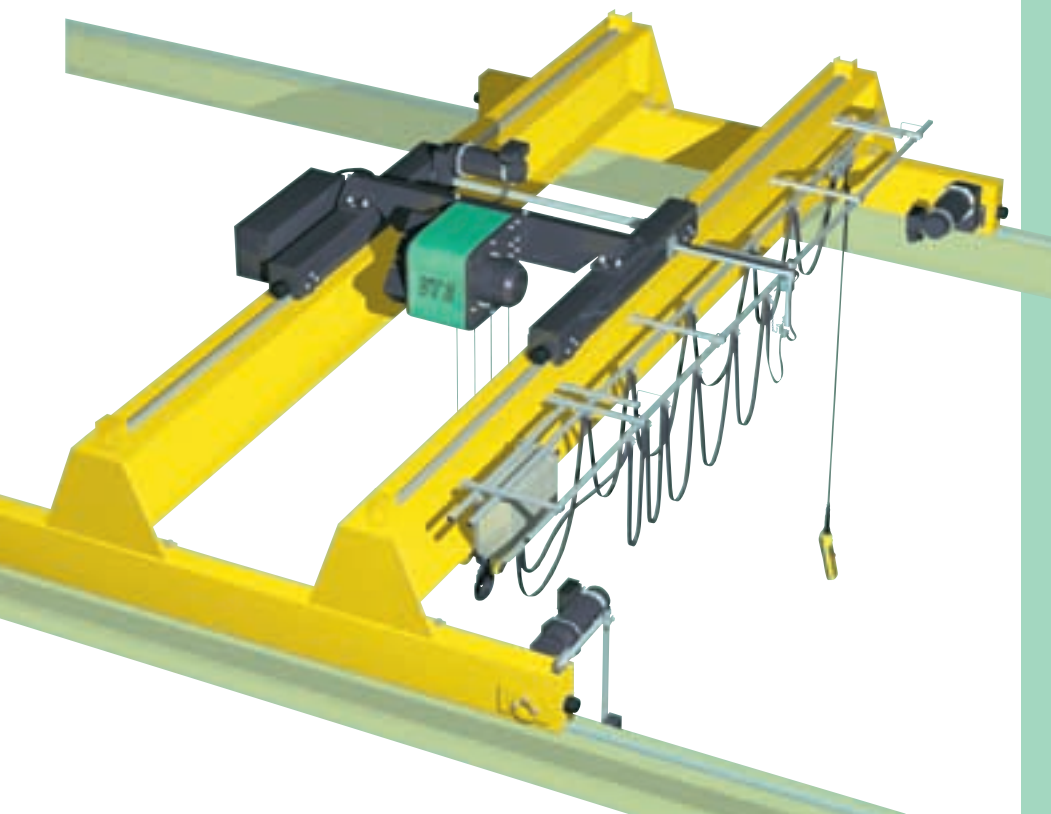




ard cranes for load from 125 to 100 000 kg



Components for single girder underslung crane

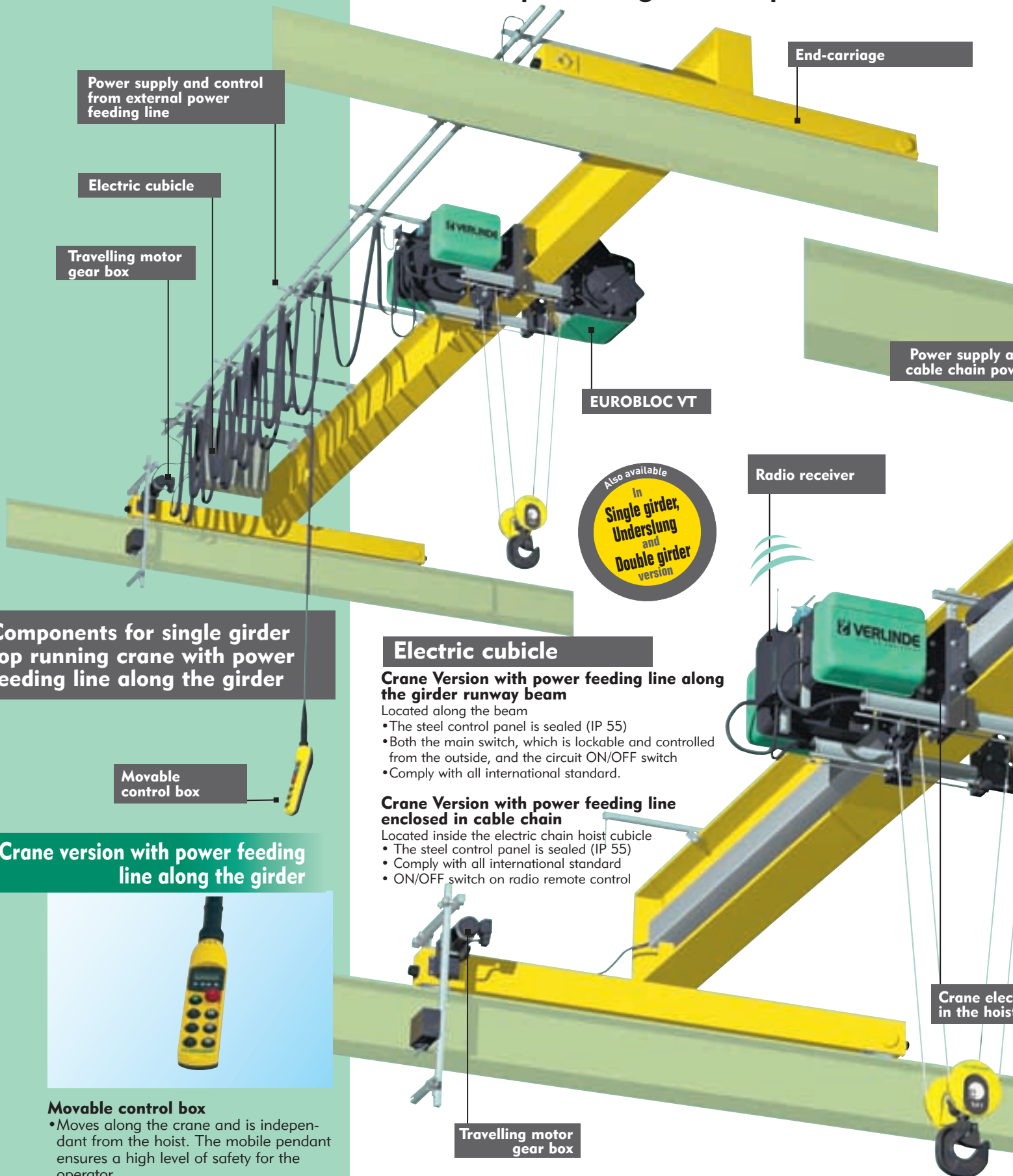


Components for double girder crane



COMPOS

Complete range of components for standard



Movable control box

- Moves along the crane and is independent from the hoist. The mobile pendant ensures a high level of safety for the operator.
- The pendant comes with the plug.
- LCD display as option.



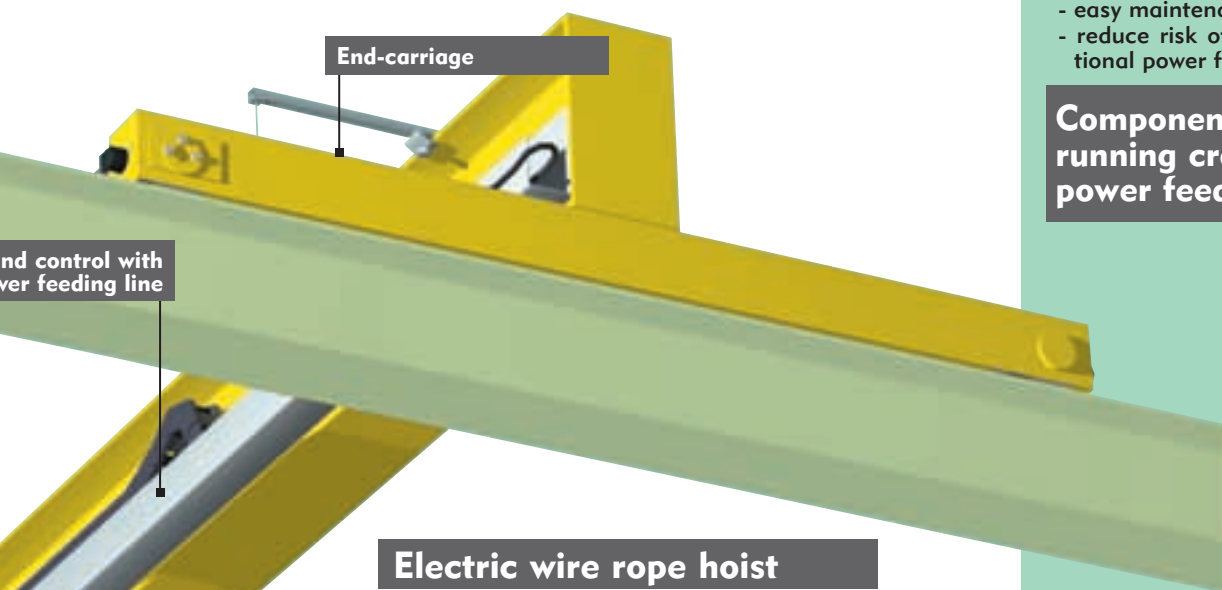
ard cranes for load from 125 to 100 000 kg

Travelling motor gear box

- Quietly and smoothly start of the motor :
 - 2 travelling speed
 - variable travelling speed

Top running end-carriages

- Direct drive wheels
- Rubber buffer
- The end-carriages are fastened with a plate bolted onto the girder



and control with
over feeding line

End-carriage

Electric wire rope hoist

EUROBLOC VT electric wire rope hoist

Monorail trolley available in short or normal headroom.
Double girder trolley

- 2 lifting speed as standard.
- Variable travelling speed as standard.
- Hook approach , «C» dimensions and the «F» approach distance of the hoist are the smallest available on the market
- Overload device as standard.
- Limit switches for hoisting and travelling

Options

- MT 2 (Electronic control and recording status of the hoist and crane: SWP, time running, starts, overloads, temperature, load, brake, etc.)
- Display with load indication on hoist, hook, control box or crane.
- Twin hoists.

EUROBLOC VT

electric cubicle built
t

Radio remote control



Crane version with power feeding line enclosed in cable chain



Cable chain:

- easy maintenance
- reduce risk of hanging like with traditional power feeding line

Components for single girder top running crane with cable chain power feeding line

Crane version with power feeding line enclosed in cable chain



Radio remote control.

The MICROMOTE remote control systems have been specifically designed for use with EUROBLOC hoists and VERLINDE crane components. Designed for the most demanding industrial environments, MICROMOTE remote controlsystems are easy to use, flexible and reliable.

MICROMOTE means improved operator productivity and safety during hoisting operations and savings made through increased productivity and a reduction in idle time.

Delivery as standard with horn on push button box.

EUROB

Electric wire rope hoist for

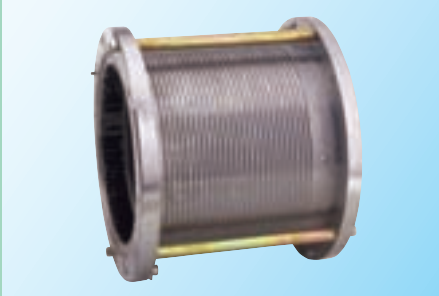
Hoisting Motor and Brake



Designed specifically for lifting, the 2-speed hoisting motor comes with all the necessary protections:

- Type IP 55 protection and F insulation class.
- Bimetal sensor
- Cooling fins enlarged significantly to encourage heat dissipation.

Hoisting drum



There is a special patent for drum assembly and drum rotation without ball bearings.

Advantage: this prevents grease and steel particles from falling into the motor.

Gear limit switches



The limit switch with 4 cams can be accessed on the gear unit and is used for managing the upper and lower limit switches of the hook, switching from low to high speed, and for managing phase reversals.



High
lifetime

Safety

Travelling. Variable travelling speed for precise positioning of loads.

Wire rope. in galvanized steel as a standard, high safety factor (factor 4,6 -FEM 2m).

Electrical cubicle. The cover can be folded back so that you can store your tools for maintenance (the cover has two steel safety wires to prevent it from falling).

MT2. Electronic control of the recording of hoist solicitation status.

Electrical. Low voltage control for more safety.

Traverse wheels. The 4 steering wheels are fully streamlined for improved safety.

Hook and pulley block. Rotating hook and pulley block with safety latch.

Easy maintenance

Hoisting motor. Motor cooling increased by 30 % (tunnel effect)

Hoisting brake . The brake is tested for hoist longevity under normal use conditions.

Steering motor-reducer. Steering reducer with one rail and a permanently lubricated connection.

Drum. The drum has been completely covered for better protection

Rope guide. Built "without spring" so that it can be more easily replaced during maintenance.

Electrical cubicle. The wires go in and out by means of steel plugs that can be unbound and that are built into the case

MT2. Calculation of the SWP (Safe Working Period)

Assembly is in modules, for easier management of spare parts for replacement

Surface treatment. 2- component epoxy paint with 120 μ for greater protection

LOC[®] VT

load from 800 to 100.000 kg



Easy service

Ergonomics

Hook and pulley block. Ergonomical hook (area to grab and hold).

Push button box. Made with tinted polypropylene, grounded, with double insulation, ergonomical (IP 65 protection). Optional load display available

Electrical cubicle. Located on the side of the hoist, easily accessible. The open / close system uses a quick closure method.

Savings

Hoisting motor. 60 % operating factor and tropicalised as a standard for greater longevity

Travelling motor. Tropicalised as a standard for greater longevity

Pulley block. The best «C» dimension on the market for optimal use of the size of your buildings and optimal use of work areas

Travelling. Variable travelling speed to reduce wear on steering rollers

Load limiter. As ordered by the directive on "Machines" (required equipment). All EUROBLOC VTs are equipped with a load limiter as a standard (safety measure in the event of hoist overload). For greater longevity

Hook and pulley block. Doesn't take up much space, permanently lubricated rollers, pulleys are in GGG cast iron, very resistant. A high pulley / wire rope diameter ratio gives the wire rope greater longevity.

High technology

Pulley block. Only a small shift of the pulley block for hoisting (lifting is almost perfectly centred).

Rope guide. The guidance system does not get dirty, which allows for use in any type of environment.

Drum. A very high wire rope / drum diameter ratio (twice as large as the standard one), which:

- Increases the longevity of the wire rope.
- Reduces the approach data of the hoist.
- Reduces the "C" approach data of the hook.

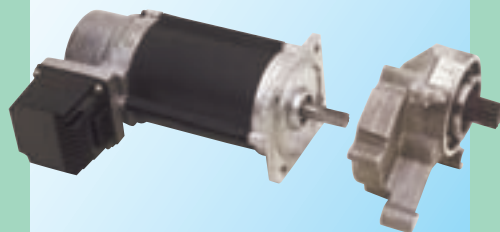
Electrical case. Quite large, it is equipped with the speed variation module as a standard

Lifting gearbox. Direct impulse gearbox unit, helicoid toothed gears, permanently lubricated, detector to prevent pressure overload.

Optimal positioning of steering rollers. The 4 steering rollers equally share the load in order to optimise your tracks

TMU

(Travelling motor unit)

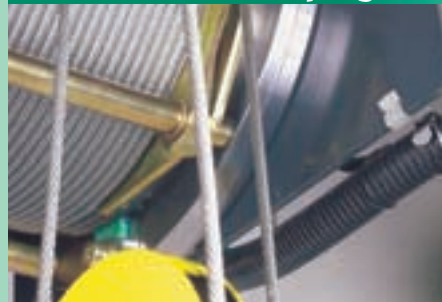


The compact travel motor, which is especially designed for travelling in lifting equipment, is equipped with a variable speed system that is a standard equipment. Maximum speed range is 2 to 32 m/min. IP 55 protection.

The motor is designed to ease any necessary maintenance:

- "Intelligent" easy system for motor positioning and assembly onto the trolley.
- The motor receives power from a single plug that can be unbound easily.

Rope guide



New rope guided system "very high performance" for difficult environments

MT2



EUROBLOC VT can be equipped with the optional MONITOR 2 (Electronic control of the recording of the hoist's tractive effort states: SWP, time running, starts, overloads, temperature, load, brake, etc.)

EUROCH

Electric chain hoist for load

Gear box



Improved hoist compactness. Low noise level while in use thanks to pinions lubricated with plenty of grease and its rectified and treated straight teeth.

Load wheel



5 or 6 pockets (depending on model), treated and rectified, machined in a single operation.

Hoist body



Made with moulded injected aluminium, making the hoist lighter, the fins on the motor section provide good thermal exchange. The chassis is painted with one Coat of 2-component epoxy paint with 80 microns that is highly resistant to corrosive agents.

Safety

Friction torque limiter. It guarantees use of the hoist without overload.

Lifting hook. Rotating hook made with special steel, conforming to DIN standards, with a safety latch.

Limit switch. Electric limit switch for upper and lower limits, providing safe operation of the hoist (provided as a standard feature on VL 16, 20 and 25).

Push button box. Very low voltage command, 48 Volts, emergency stop (large button).

Savings

Disk brake. Electro-magnetic, brake linings tested for longevity of the hoist within its use group.

Load limiter. As a standard, all EUROCHAIN VLs are equipped with a torque limiter (Safety feature to prevent hoist) For greater longevity.

Treated surface. Two-component epoxy paint with 80 microns for better protection against corrosive agents

Ergonomics

Push button box. Water-proof, IP 65 protection, with 2, 4 or 6 buttons.

Electrical cubicle. Located on the side of the hoist, easy to access.

New
technology



CHAIN VL

Load from 60 up to 7 500 kg



High safety

High technology

Chain guide. Ensures perfect positioning of the chain around load wheel.

Electrical cubicle. Very spacious, and equipped as a standard with an electric plate that can be fitted with an optional an hour time counter, etc...

Hoisting motor. Optional mono-phase version available.

Load wheel. With 5 or 6 pockets for better distribution of the load.

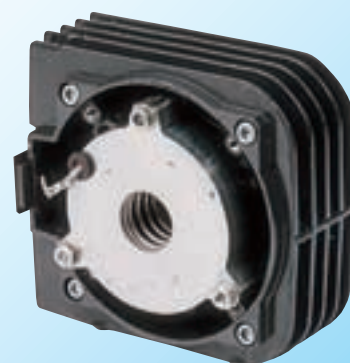
BGV C1 (VGB 70). Optional BGV C1 version available.

Easy maintenance

Hoisting motor. 1 or 2 speeds, speed ratio: HS /LS 1/4 power of the motors with 0,2/0,5 to 3,5/0,9 kW, F insulation class, IP 55 protection. The motor is cooled by means of thermal exchange.

Lifting chain. Zinc coated and calibrated, with high tensile strength, treated (800 N/mm²). Special chains available as option: reduced lubrication chain, stainless chain, ...)

Disk brake



Electro-magnetic type with linings material for hoist FEM groups lifetime, designed for easy to access and simple adjustment.

Chain bag



Moulded, steel or made out fabric, adapted to lifting height (several capacities).

Electric control panel



Quite large, built into the piece of equipment, it contains all of the component (plate, connectors, transformer, etc.) and is easy to access for maintenance purposes, IP55 protection.

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 traveling speeds (20/5 m/min or 10/2,5 m/min for BH2) for more accurate positioning of your loads

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

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

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



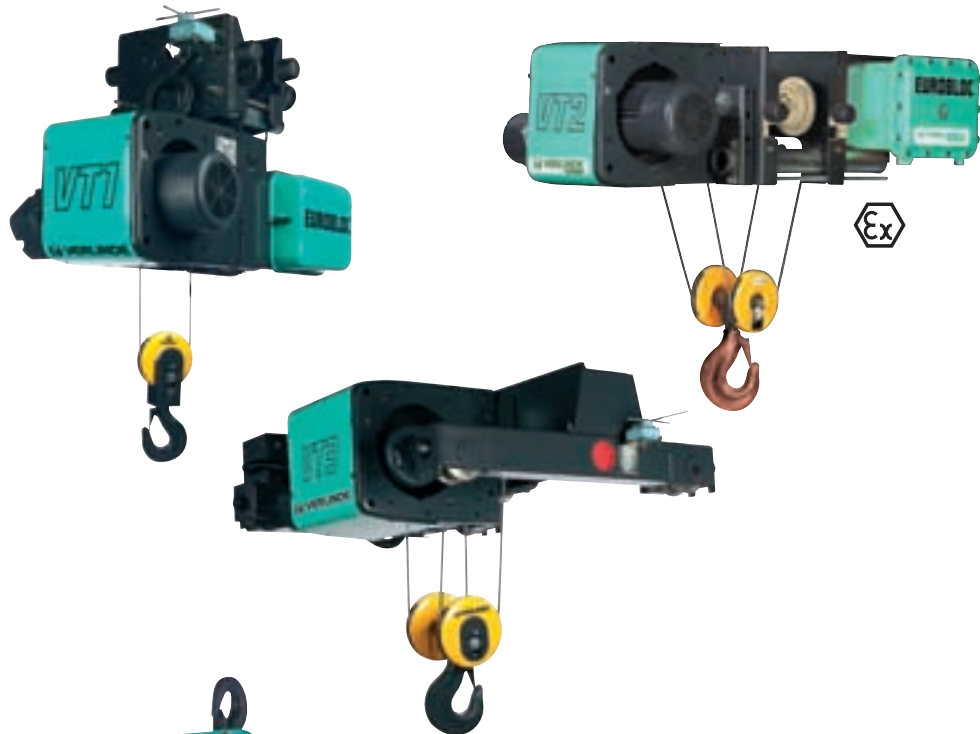
The hoist has a load limiter as standard equipment, preventing hoisting in the event of overloads (in compliance with the European "MACHINES" Directive).

COMPOS

Complete range of components for standard

Electric wire rope hoist

- Electric wire rope hoist from EUROBLOC VT range.
- Hook approach, «C» dimensions and the «F» approach distance of the hoist are the smallest available on the market
- 2 hoisting speed.
- Variable travelling speed.
- Hoist available in short or normal headroom trolley and double girder trolley
- Overload device
- 4 step gear limit switches
- Electric wire rope hoist available in explosion proof and spark proof version.



Electric chain hoist

- Electric chain hoist type EUROCHAIN VL.
- Compact and high performance hoist.
- Large range of hoisting speed available.
- Electric trolleys fixed to hoist
- Hoist available in short or normal headroom.
- Galvanized load chain
- Torque limiter
- Electric chain hoist available in explosion proof and spark proof version.



Electric belt hoist

- Electric belt hoist type EUROLIFT BH.
- Specially designed for food and chemical industry...
- Electric trolleys fixed to hoist
- Electric trolleys with short headroom as standard.
- High resistance polyester belt, Fire retardant, maintains its strength after immersion in boiling water.
- Gear limit switches.
- Electric belt hoist available in explosion proof and spark proof version.





ard cranes for load from 125 to 100 000 kg

Top running and underslung end-carriages

- Direct drive wheels
- Wheels available in spark proof version.
- The end-carriages are fastened with a plate bolted onto the girder



Travelling motor gear box

- Quietly and smoothly start of the motor
- 2 travelling speed as standard : large range of speed
- Available with travelling variable speed motor
- Disc brake
- Requires only minimum maintenance
- Available in explosion proof version.



Options*

- Radio remote control type MICROMOTE.
- Frequency inverter system for hoisting and travelling type VARIATOR.
- MT 2 (Electronic control and recording status of the hoist and crane: SWP, time running, starts, overloads, temperature, load, brake, etc.)
- Optical and audible warning system during load moving
- Display with load indication on hoist, hook, control box or crane.
- Clamshell and peel grab
- Twin hoists.



*Pictures given under reserve of modifications

Electric cubicle



- The amply-dimensioned steel control panel is sealed (IP 55)
- Both the main switch, which is lockable and controlled from the outside, and the circuit ON/OFF switch
- Comply with all international standard.
- Electric cubicle available in explosion proof version



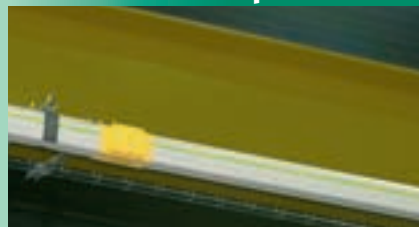
Movable control box



- Moves along the crane and is independent from the hoist.
- The mobile pendant ensures a high level of safety for the operator.
- The pendant comes with the plug.
- Movable control box available in explosion proof version



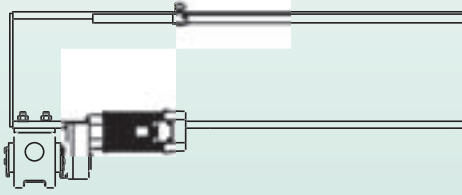
PVC Enclosed power feeding line



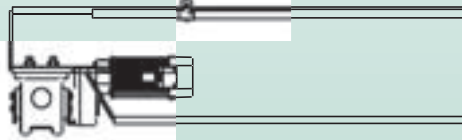
- Crane kit power feeding line is available enclosed in PVC track.
- Easy Installation.
- Requires only minimum maintenance

End-carriage joint plates

Top running single and double girder "TOP CONNECTION"



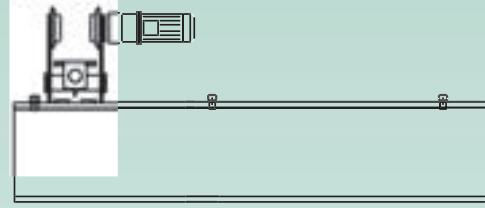
Top running single and double girder "MEDIUM CONNECTION"



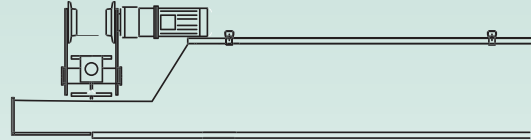
Top running single and double girder "LOW CONNECTION"



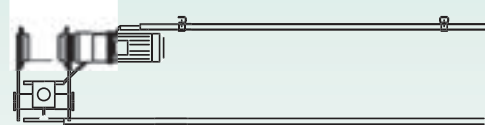
Underslung single girder "TOP CONNECTION"



Underslung single girder "MEDIUM CONNECTION"



Underslung single girder "LOW CONNECTION"



Standards and hoisting regulations



CE directive. Since 1st January 1995, the European Machinery Directive 98/37 EEC obliges that machine constructors ensure that their machinery complies with certain regulations, standards, national legislations and technical specifications.

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

FEM: European lifting equipment association.

SWP: A Safe Working Period is calculated for each electrical hoists unit according to the average operating time of the hoisting equipment,

load capacity and class of application. After this period, a general service carried out by the constructor is necessary.

Class of operation. According to FEM classification, two fundamental criteria must be taken into account : the type of duty and the class

of duty (according to average daily operation time average load).

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

Type of duty. Light service. Equipment rarely subject to maximum load and frequently to very little load. **Medium service.** Equipment quite

often subject to maximum load and frequently to very little load.

Heavy service. Equipment frequently subject to maximum load and frequently to medium load. Very heavy service. Equipment frequently subject to maximum or near maximum load.

Average daily operating time (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
Type of service	1	L1 Light					1Bm	M3	1Am	M4	2 m	M5	V4	M6
	2	L2 Medium			1B m	M3	1Am	M4	2 m	M5	3 m	M6		
	3	L3 Heavy	1Bm	M3	1A m	M4	2 m	M5	3 m	M6				
	4	L4 Very heavy	1Am	M4	2 m	M5	3 m	M6						

Group						1Bm	M3	1A m	M4	2 m	M5	3 m	M6
Duty factor*						25 %		30 %		40 %		50 %	
Number of star starts per hour						150		180		240		300	

■ FEM 9511 standards classification. ■ ISO standards classification.

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

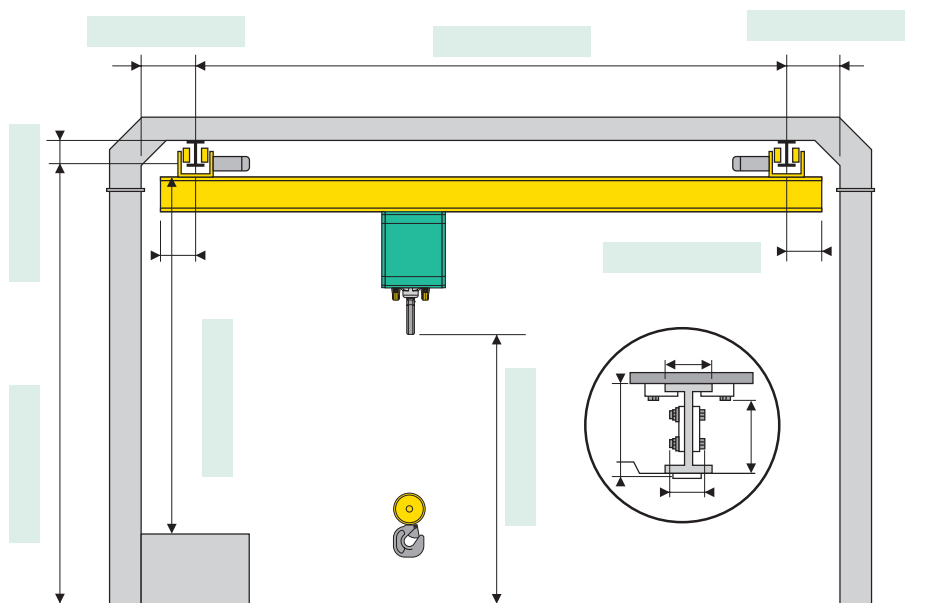
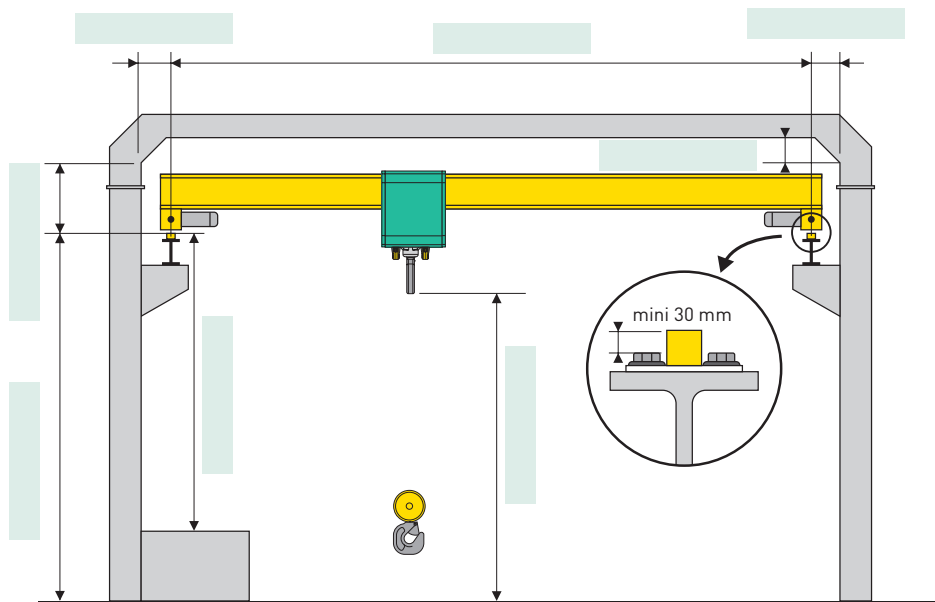
Crane components quotation

Load capacity: _____ kg | Span: _____ m | Power supply: _____ Volts

Existing runway ? Yes / No ☐ Yes ☐ No

Runway, type: _____ | Runway lenght: _____ m

Top running single girder crane ☐ | Underslung single girder crane ☐ | Top running double girder crane ☐



Please copy this page, fill in the data sheet and fax it to:

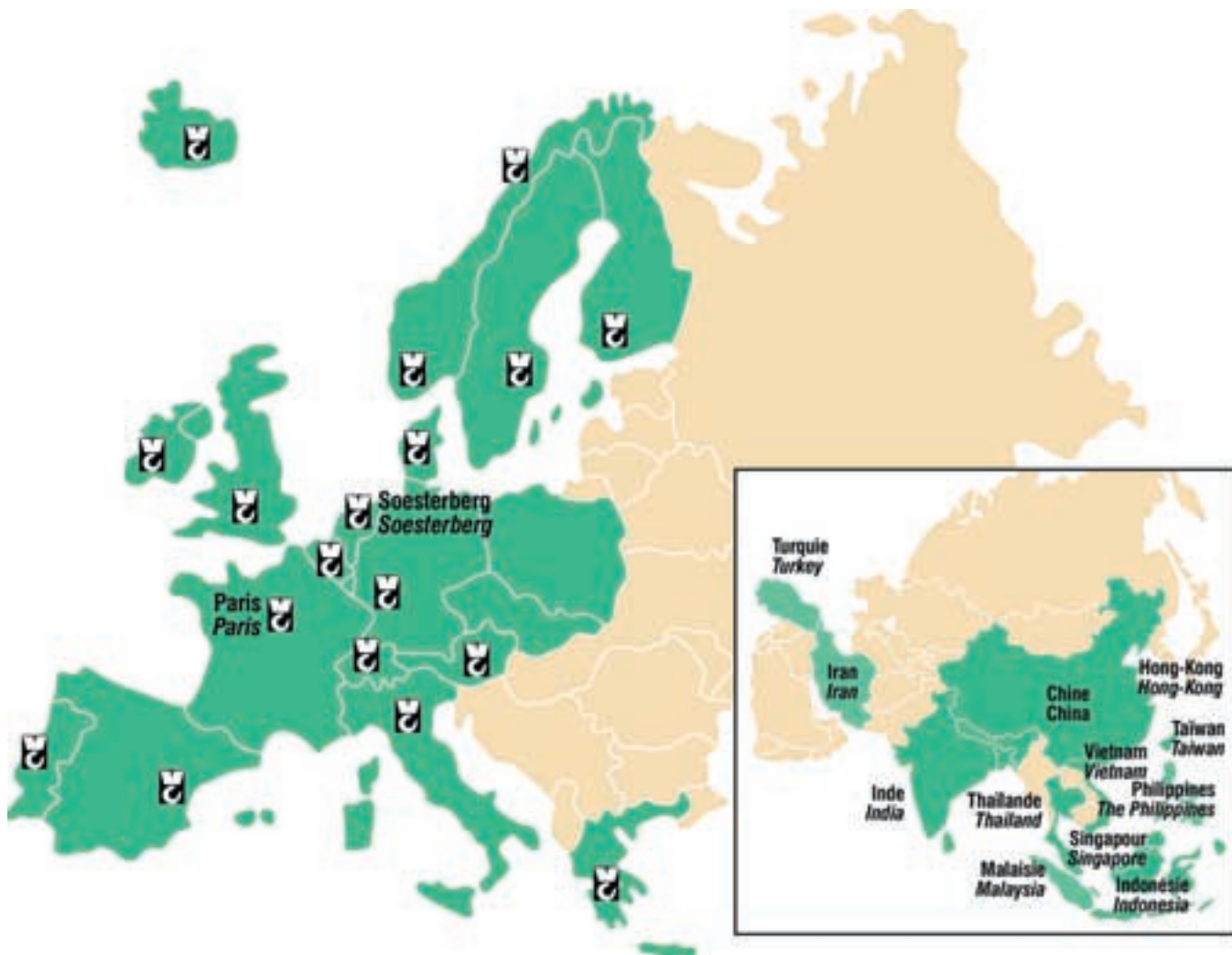
02 37 38 96 50.

Company: _____ | Name: _____ | Fonction: _____

Adress _____

Town: _____ | Country: _____

Phone: _____ | Fax : _____ | E-mail : _____



VERLINDE is:

The leading French constructor and exporter of hoisting and mechanical handling equipment.

- A group employing 5,000 staff.
- A large range hoisting equipment from 60 to 100.000 kg
- ISO 9001 quality control certified.
- Easily-accessible consultants in over 80 countries.



In France

9 Sales offices, 14 after sale service centres, 11 manufacturing plants for EUROPONT travelling cranes and a national distribution network.

World-wide

Branches in Germany, Holland, Belgium, Italy and distributors in Germany, Spain, Italia, Argentina, Austria, Brazil, Chilli, Ireland, United Kingdom, Sweden, Norway, Denmark, China, Thailand, Indonesia, Malaysia, Vietnam, India, United States, etc.



2, boulevard de l'Industrie - B.P. 59 - 28501 Vernouillet cedex - France

Phone : +33 2 37 38 95 95 - Fax : +33 2 37 38 95 99

Internet : www.verlinde.com

JV 05 2002 121GB