# Products
## catalog

# STAGEMAKER®

# edito

STAGEMAKER® motors and accessories meet today's demanding market requirement and lead the way to the future.

STAGEMAKER® hoists are recognized worldwide as the future standard for stage and tour equipment.

VERLINDE is synonymous with state of the art technology, uncompromising safety, and product reliability and availability in the widest range of speeds and load capacities. This is the result from 150 years of innovation and it is no coincidence that STAGEMAKER® introduced on the market the first hoist dedicated to entertainment industry, the LITACHAIN L104 in 1975.

Our product's amazing characteristics and features truly open the gates to creativity and inspiration for lighting movement solutions.

STAGEMAKER® staging the future.

# content

# Welcome to the world of

# STAGEMAKER®

# STAGEMAKER®
# compacts motors

The STAGEMAKER® COMPACT is designed for handling stage and theatre equipment, ensuring safe and precise positioning of speakers, lighting systems, stage sets, sceneries, etc.

The STAGEMAKER® COMPACT electric hoists implements CE-certification chain and comply with the American CSA standard. The STAGEMAKER® COMPACT features and options, its compact design and on-going adaptability (R&D, close corporation with the entertainment industry) makes this system the best choice for your stage productions.

## Main technical characteristics (version A)

- Class F lifting motor
- Enhanced safety by load limiter
- Electromagnetic disk brake
- Power supply: 400V-3Ph – 50 Hz / 460-60Hz-3Ph
- Pivoting upper and lower hook
- Compact dimensions
- Hoist housing made of injection-cast aluminum
- Black lifting chain
- Load wheel with 5 pockets
- CHAINFLUX chain guide system with horizontal output
- Mat black painted (RAL 7021)
- Ergonomic handgrip for easy transportation
- Upright and inverted use in standard configuration and in industrial position by simply shifting chain bucket (SM5 and SM10)
- High-capacity chain bucket

## Ergonomic handgrips.

The hoist body is made of injection-cast aluminum to reduce motor weight. The motor ribs ensure efficient heat dissipation (up to 240 startups per hour). The hoist is protected by 80-micron epoxy paint (RAL 7021).

## Black lifting chain.

Class T, 800 N/mm². Safety coefficient 5, electrogalvanized, specially manufactured for VERLINDE.
High-capacity, high-strength chain bucket made of enforced high grade black fabric, 900 denier, removable.

## Load wheel with 5 pockets.

Machined in a single production step on our machining centers. The 5-pocket load wheel ensures fluid movement of the lifting chain and reduce the polygon effect.
The CHAINFLUX horizontal output guide system prevents chain twisting regardless of the motor position.
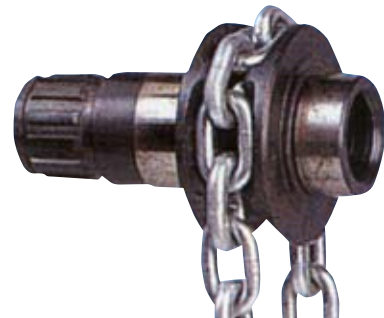
## Large steel panel electrical housing.

It receives the electrical components and provides space for other options. The housing provides easy access for all maintenance operations (IP55/NEMA 3R).
Geared limit switches, hour counter, encoder bearing, sensors… are just some of the available options. The unit comes with a standard connection cable equipped with a CE type connector or Harting connector according version type.

## Optional equipment

- Built-in encoder
- Built-in load monitoring system
- Electronic load limiter
- Pendant control
- Double brake
- 2 lifting speeds
- Controller for 4/6/8/12 channels
- Motor available in version BGV-C1 (VBG-70) and version BGV-D8+
- Geared limit switch (2 or 4 cams)
- Very-low voltage control (48 V)
- Variable speed
- Wide range of flight cases for 1 or 2 motors

**VERLINDE**
LIFTING EQUIPMENT

## SM1&2

new
250 kg / 1 fall

## SM5

## SM10

## SM1&2

new
250 kg / 1 fall

## SM5

## SM10

## SM16, 20&25

500 kg

# Different levels of control to suit any application

| Capacity (kg) | Type code Version A - B - C and E Standard BGV-D8 | Type code Version A - B - C and E Advanced safety BGV-D8+[1] | Type code Version D BGV-C1[2] | Speed (M/min) | Hoist duty cycle %[4] | Nb of falls | Chain size (mm) | Motor power (kW) | Dimensions[3] (mm) A | B | H | Weigth[4] (kg) Hoist body | chain p/m lift |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 125 | SM1 128M1 | | | 8 | 40 | | 3.1x9.3 | 0,2 | 278 | 200 | 110 | 14 | 0,2 |
| | SM5 1216M2 | SM5 1216M2 | | 16 | 40 | 1 | 4.8x12.5 | 0,45 | 401 | 247 | 135 | 27 | 0,55 |
| 250 | SM2 254 M1 | | | 4 | 25 | 1 | 4x12 | 0,2 | 334 | 200 | 110 | 17 | 0,35 |
| | SM5 254 M2 | | | 4 | 40 | 1 | 4.8x12.5 | 0,45 | 401 | 247 | 135 | 27 | 0,55 |
| | | SM5 254 M2 | | 4 | 40 | 1 | 4.8x12.5 | 0,45 | 451 | 247 | 135 | 27 | 0,55 |
| | SM5 258 M2 | | | 4 | 40 | 1 | 4.8x12.5 | 0,85 | 401 | 247 | 135 | 27 | 0,55 |
| | | SM5 258 M2 | | 8 | 40 | 1 | 4.8x12.5 | 0,85 | 451 | 247 | 135 | 27 | 0,55 |
| | SM5 2516 M1 | | | 16 | 25 | 1 | 4.8x12.5 | 0,85 | 401 | 247 | 135 | 27 | 0,55 |
| 500 | SM5 504 M1 | | | 4 | 25 | 1 | 4.8x12.5 | 0,45 | 401 | 247 | 135 | 27 | 0,55 |
| | | SM10 504 M2 | SM10 504 M2 | 4 | 40 | 1 | 6.8x17.8 | 0,9 | 588 | 283 | 175 | 52 | 1,22 |
| | SM5 508 M1 | | | 8 | 25 | 1 | 4.8x12.5 | 0,85 | 401 | 247 | 135 | 27 | 0,55 |
| | | SM10 508 M2 | SM10 508 M2 | 8 | 40 | 1 | 6.8x17.8 | 1,75 | 588 | 283 | 175 | 52 | 1,22 |
| | SM10 5016 M1 | | | 16 | 25 | 1 | 6.8x17.8 | 1,75 | 481 | 283 | 175 | 48 | 1,22 |
| 1000 | | SM10 1002 M2 | SM10 1002 M2 | 2 | 40 | 2 | 6.8x17.8 | 1,75 | 588 | 283 | 175 | 52 | 2,44 |
| | SM10 1004 M1 | | | 4 | 25 | 1 | 6.8x17.8 | 0,9 | 481 | 283 | 175 | 48 | 1,22 |
| | | SM10 1004 M2 | SM10 1004 M2 | 4 | 40 | 2 | 6.8x17.8 | 1,75 | 588 | 283 | 175 | 52 | 2,44 |
| | SM10 1008 M1 | | | 8 | 25 | 1 | 6.8x17.8 | 1,75 | 481 | 283 | 175 | 48 | 1,22 |
| | | SM16 1008 B1 | | 2/8 | 25 | 1 | 9x27 | 3.5/0.87 | 518 | 490 | 195 | 115 | 1,8 |
| 1250 | | SM25 1256 B2 | | 1.6/6.3 | 40 | 1 | 11.3x31 | 3.5/0.87 | 518 | 490 | 195 | 115 | 2,85 |
| 1600 | SM16 1608 B1 | | | 2/8 | 25 | 1 | 9x27 | 3.5/0.87 | 518 | 351 | 195 | 100 | 1,8 |
| 2000 | SM10 2002 M1 | | | 2 | 25 | 2 | 6.8x17.8 | 1,75 | 588 | 283 | 175 | 52 | 2,44 |
| | SM10 2004 M1 | | | 4 | 25 | 2 | 6.8x17.8 | 1,75 | 588 | 283 | 175 | 52 | 2,44 |
| | | SM20 2004 B2 | | 1/4 | 40 | 2 | 11.3x31 | 3.5/0.87 | 518 | 490 | 195 | 115 | 2,85 |
| | SM20 2008 B1 | | | 2/8 | 25 | 2 | 11.3x31 | 3.5/0.87 | 518 | 351 | 195 | 110 | 2,85 |
| 2500 | | SM25 2503 B2 | | 0.75/3.25 | 40 | 2 | 11.3x31 | 3.5/0.87 | 518 | 490 | 195 | 115 | 5,7 |
| 5000 | SM25 2506 B1 | | | 1.6/6.3 | 25 | 1 | 11.3x31 | 3.5/0.87 | 518 | 351 | 195 | 110 | 2,85 |
| | SM25 5003 B1 | | | 0.75/3.25 | 25 | 2 | 11.3x31 | 3.5/0.87 | 518 | 351 | 195 | 125 | 5,7 |

**1 :** Includes safety factor 10 and double brake.
**2 :** Includes safety factor 10, double brake, overload detection and special controls.
**3 :** Weight and sizes are indicative.
**4 :** Electric motors are min. 40% ID - 240 starts per hour.

- **Version A :** Cost effective direct control for rental and general rigging purposes.
- **Version B :** Low voltage control for fixed installations.
- **Version C :** Hoists for controllers with programmable presets.
- **Version D :** Controls in compliance to BGV-C1 code of praxis.
- **Version E :** Hoists without controls for external control integration.
- **Version F :** Cyberhoist, network controlled 3D programmable hoist.
- **Version V :** Hoists with built-in inverter for smooth speed control.
- **Version S :** Single phase power supply.

Versions A-B-C-E and V are also available in compliance with BGV-D8+ code of praxis.

VERLINDE
LIFTING EQUIPMENT
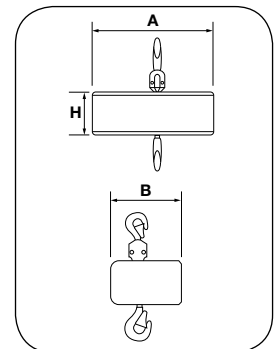
# STAGEMAKER®
## variable speed motor

Now it is easy to control **the load with accuracy.**

## Main technical characteristics (version V)

This new motor is based on the SM 10 body associated to a variable speed drive integrated in the electrical housing.

• Lifting variable speed drive VLh002.

• Encoder on motor shaft.

• Brake resistor.

• Thermistor on lifting motor.

• Rectifier and brake control relay.

• Continuous speed monitoring system:
  - Stall monitoring: if the motor does not turn, the system inhibits lifting movement.
  - Overspeed monitoring: if the motor turns at a speed 20% above the nominal speed, the system inhibits lifting movement.

• CHAINFLUX chain guide.

• Hour counter (by means of variable speed drive).

# Advantages of variable speed drive

- High-precision, gentle lifting movements.
- Lower shock and stress on carrying structure.
- Reduced maintenance.
- Compact dimensions.
- Sophisticated design and production.
- Efficient load handling.
- High level of safety and reliability.
- Excellent investment return.
- An incredible price !!

**VERLINDE**
LIFTING EQUIPMENT

## SM10 V and controler diagram

This system is the perfect combination of high quality chain hoist with variable lifting speed drive with a controller associated to a PC computer.
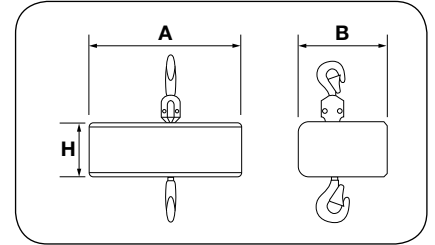
Emergency stop

Power supply

Portable computer
Operating desk CC48
R8CPU-VS programmable computer

Ethernet cable

Power and control cable

# Optional equipment

- Non-standard electrical power supply.
- Controller.
- Geared limit switch.
- Protection: IP 55 or higher.

- Flight cases.
- Power supply and control cables.

## Variable speed lifting motor (version V)

| Capacity (kg) | Version V | | Speed (M/min) | Hoist duty cycle %[4] | Nb of falls | Chain size (mm) | Motor power (kW) | Dimensions[3] (mm) | | | Weigth[3] (kg) | |
| | Standard BGV-D8 | Advanced safety BGV-D8+[1] | | | | | | A | B | H | hoist body | Chain p/m lift |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 500 | SM10.508V2-V | | 0.5/8 | 50 | 1 | 6.8x17.8 | 1,75 | 481 | 381 | 175 | 50 | 1,22 |
| | | SM10.508V2-V | 0.5/8 | 50 | 1 | 6.8x17.8 | 1,75 | 588 | 381 | 175 | 54 | 1,22 |
| | SM10.5016V1-V | | 1/16 | 40 | 1 | 6.8x17.8 | 1,75 | 481 | 381 | 175 | 50 | 1,22 |
| | | SM10.5016V1-V | 1/16 | 40 | 1 | 6.8x17.8 | 1,75 | 588 | 381 | 175 | 54 | 1,22 |
| 1000 | SM10.1008V1-V | | 0.5/8 | 40 | 1 | 6.8x17.8 | 1,75 | 481 | 381 | 175 | 50 | 1,22 |
| | | SM10.1008V2-V | 0.5/8 | 50 | 2 | 6.8x17.8 | 1,75 | 588 | 381 | 175 | 54 | 2,44 |
| 2000 | SM10.2004V1-V | | 0.25/4 | 40 | 2 | 6.8x17.8 | 1,75 | 481 | 381 | 175 | 50 | 2,44 |

**1 :** Includes safety factor 10 and double brake.
**2 :** Includes safety factor 10, double brake, overload detection and special controls.
**3 :** Weight and sizes are indicative.
**4 :** Electric motors are min. 40% ID - 240 starts per hour.

VERLINDE
LIFTING EQUIPMENT

# STAGEMAKER®
# Cyberhoist

## A **revolution** in computer-controlled hoists

The revolution in motion control continues. STAGEMAKER® CYBERHOIST "intelligent hoist motor" system with the dedicated InMotion 3D design and control software create a powerful new tool for achieving complex and dynamic set element movements quickly, safely and in near silence.

System options include (dual) Full Production System, (single) Production System and NoteBook Production System, a handheld controller for fast load-in and loadout and an expanded range of three STAGEMAKER® CYBERHOIST motors, providing a wide choice of loading and speed ranges.

STAGEMAKER® CYBERHOIST was
awarded the innovation prizeat the
Plaza tradeshow in London and at
the LDI at Orlando.



WINNER OF THE
PLASA
2004 AWARDS FOR INNOVATION

Designed in cooperation with lighting and set-designers and production managers, this revolutionary system has all the features the entertainment and corporate presentations markets have asked for – and more. Abilities include fast programming, accurate positioning and repeatability, true timed speed control, no truss twisting at start up and much more.

Analogous to an automated lighting system – and unlike any other motion control system on the market – this system's "intelligence" is shared between the host control computer and the dedicated STAGEMAKER® CYBERHOIST motors. Each motor's integral proces-

sor (communicating via DataMotion technology over Ethernet) interacts with the host computer to feed back real-time position, speed, temperature, load and status data for total control and complete safety.

The advantages of controlled interaction between lighting and riggingequipment, and the tremendous time-saving during a show build because of the system's simplicity to install, are clear. Above all, accurate and smooth variable speed control from 0.1 mm/sec (0.004"/sec) up to 40 metres/min* (2 ft per sec), in steps of 0.1 mm/sec, permits programming with a precision of ± 0.1 mm over the whole chain length.

VERLINDE
LIFTING EQUIPMENT

# STAGEMAKER®
# innovations

## chainflux

## Innovation, the natural flow

Constantly improving and adapting its products to market needs (R&D, cooperation with entertainment industry), VERLINDE is proud to present its NEW STAGEMAKER® CHAIN GUIDE (available on SM5 and SM10).
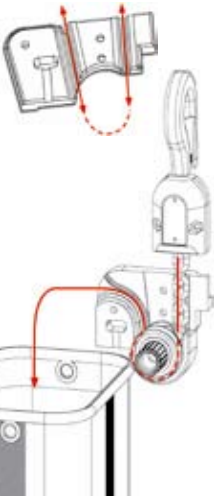
### new concept

Its special shape provides a much more fluid horizontal flow of the chain as it comes out of the load wheel.

CHAINFLUX

Standard system

With CHAINFLUX

### material

High strength industrial polyamide. This material provides a remarkable friction coefficient, facilitating passage of the chain on ejection.

### Many technical advantages

A number of technical advantages are provided by this new innovative ejection system:
• Prevents chain jamming at the upper part of the hoist as the chain comes out.
• The slack side of the chain has no influence on the internal transmission of the hoist.
• Avoids any possibility of jamming due to twisting of the chain.
• Optimizes chain introduction in the chain bucket.
• Reduced contact area between hoist body and chain reduces wear.

Upper hook with built-in overload sensor

ACF Board in aluminium electric cubicle on STAGEMAKER SM 5

STAGEMAKER SM5 double brake

# innovation
## double brake
## on SM16/20/25

The power of the SM/16/20/25 Stagemakers and the safety of a double brake:
• A safety margin of 1-to-10 in 1 metric ton
• Unique safety equipment: the parking brake is mounted on the hoisting block.
The first brake is placed after the load limiter and the second on the hoisting block.
This unique "parking brake" type device on the driving gear of the chain prevents all slip or dropping of the load when the hoist is stopped.
In addition, if you divide the maximum load allowed on the motor by 2, your hoist then comes into compliance with standard D8+ !!!



Double brake on
SM16, 20 et 25

## Optional equipments

• Geared limit switches (2 or 4 cams).
• Hour counter.
• Integrated encoder system.
• Integrated measuring system.
• Electronic load limiter.
• Pendant control.
• Double brake.
• 2 lifting speeds (1:4 ratio).
• Compact motor version.
• Motor available in version VGB-C1
• Very-low voltage control (48 V).
• Variable speed for lifting and direction.
• Compact flight case for 1 or 2 motors.
• Single phase motor.

**VERLINDE**
LIFTING EQUIPMENT

# STAGEMAKER®
# accessories

## flight cases

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

| Motor type | Description | Chain length | Type |
|---|---|---|---|
| SM1 | Flight case for 2 hoists | 40 m | FL012 |
| SM1 | Flight case for 4 hoists | 40 m | FL013 |
| SM2 | Flight case for 2 hoists | 40 m | FL021 |
| SM5 | Flight case for 1 hoist | 30 m | FL002 |
| SM5 | Flight case for 1 double brake hoist | 50 m | FL006 |
| SM5 | Flight case for 2 hoists | 30 m | FL004 |
| SM5 | Flight case for 2 double brake hoists | 50 m | FL011 |
| SM10 | Flight case for 1 hoist | 30 m | FL001 |
| SM10 | Flight case for 1 hoist | 50 m | FL014 |
| SM10 | Flight case for 2 hoists | 30 m | FL003 |
| SM10 | Flight case for 2 hoists | 50 m | FL015 |
| SM10 | Flight case for 1 double brake hoist | 40 m | FL005 |
| SM10 | Flight case for 2 double brake hoists | 40 m | FL010 |
| SM10V | Flight case for 1 variable speed hoist | 30 m | FL019 |
| SM10V | Flight case for 2 variable speed hoists | 30 m | FL017 |
| SM16-20-25 | Flight case for 1 hoist | - | FL007 |

- 9.5 mm wood panel structure with black covering.
- Double 2 mm aluminum corner profiles.
- PENN locks.
- 2 carrying grips on SM1 and SM5.
- 4 carrying grips on SM10.
- Reinforced upper plate.
- Wheel diameter 100 mm.

# Electronics force gauge

The electronic force gauge PEV is a compact measuring device with an LCD or LED display (according model) wich indicate in real time the load on hook.

- Accuracy +/- 0.1% at nominal load
- Std.Fonctions: Overload signal (110% max. load), allow for the tare, reset to 0, Addition, total clearing.
  (Except. PEV 1 "Addition" and "total clearing" as option).
- Good readable via the big display (LCD or LED)
- Values saving
- Operating temperature: – 20° à + 60° C
- Protection: IP 55
- Deliver with 2 Shackles and upper and lower fixation parts

## Options

- Display with 5 LED 25,4mm - 1".
- Infra red remote.
- Suitcase.
- Load selection.
- Additional battery.
- Stainless stell version.
- Tropicalized version and IP 65 protection.
- Built-in printer.
- Radio, Bluetooth® or Wifi® Transmission data.

# Cable and pushbutton controller

- Pushbutton controller for 1 or 2 motors (version A only).
- Connection cable for 2 controllers (Master/Slave connection).
- Splitter box to connect up to 5 controllers.
- Connector / multiple connector adapter.
- Multiple connection cable for motors.
- Connection cable for 1 motor.
- Remote control with emergency stop.

VERLINDE
LIFTING EQUIPMENT

# STAGEMAKER®
# controllers

The STAGEMAKER® CONTROLLER has been specifically developed for the control of STAGEMAKER® VERLINDE motors (chain hoist) of the SM series. The controllers come with 4 or 8 channels and can be integrated in a compact flight case (19" rack) 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 on RM type motors.

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, the STAGEMAKER® CONTROLLER can be connected together (this function is optional) for a system controlling up to 40 motors. All the motors selected will be activated simultaneously by a single button. Other configurations are available on request.

The STAGEMAKER® COMPACT satisfies the current safety standards (hoist defined to CE standards) and meets all the needs and requirements of the entertainment industry.

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 R4PRMSR



Controller SC4P

## Controlers range

| Type | Channel | Control | Remote control | Packaging | For hoist version/ type | Hoist connections |
|------|---------|---------|----------------|-----------|-------------------------|-------------------|
| SC4P | 4 | Direct | No | ABS suitcase | A | CEE plug 4p |
| SC8P | 8 | Direct | No | ABS suitcase | A | CEE plug 4p |
| R4P | 4 | Direct | No | 19" 3U rack in flightcase | A | Harting 16p |
| R8P | 8 | Direct | No | 19" 3U rack in flightcase | A | Harting 16p |
| R12P | 12 | Direct | No | 19" 6U rack in flightcase | A | Harting 16p |
| R4PRM | 4 | Direct | Yes / remote | 19"6U rack in flightcase | A | Harting 16p |
| R8PRM | 8 | Direct | Yes / remote | 19" 6U rack in flightcase | A | Harting 16p |
| R12PRM | 12 | Direct | Yes / remote | 19" 6U rack in flightcase | A | Harting 16p |
| R4PRMSR | 4 | Direct | Yes / radio | 19" 3U rack in flightcase | A | Harting 16p |
| R8PRMSR | 8 | Direct | Yes / radio | 19" 3U rack in flightcase | A | Harting 16p |
| R12PRMSR | 12 | Direct | Yes / radio | 19" 6U rack in flightcase | A | Harting 16p |
| FL4PLV | 4 | Low voltage (48Vac) | No | vertical flightcase | B | 2 x CEE plug 4p |
| FL8PLV | 8 | Low voltage (48Vac) | No | vertical flightcase | B | 2 x CEE plug 4p |
| FL12PLV | 12 | Low voltage (48Vac) | No | vertical flightcase | B | 2 x CEE plug 4p |
| FL4PRMLV | 4 | Low voltage (48Vac) | Yes / remote | vertical flightcase | B | 2 x CEE plug 4p |
| FL8PRMLV | 8 | Low voltage (48Vac) | Yes / remote | vertical flightcase | B | 2 x CEE plug 4p |
| FL12PRMLV | 12 | Low voltage (48Vac) | Yes / remote | vertical flightcase | B | 2 x CEE plug 4p |
| FL4PRMLVSR | 4 | Low voltage (48Vac) | Yes / radio | vertical flightcase | B | 2 x CEE plug 4p |
| FL8PRMLVSR | 8 | Low voltage (48Vac) | Yes / radio | vertical flightcase | B | 2 x CEE plug 4p |
| FL12PRMLVSR | 12 | Low voltage (48Vac) | Yes / radio | vertical flightcase | B | 2 x CEE plug 4p |
| R4PRMVS | 4 | Low voltage (48Vac) | Yes | 19" 6U rack | V | Harting 16p |
| R8PRMVS | 8 | Low voltage (48Vac) | Yes | 19" 6U rack | V | Harting 16p |
| R12PRMVS | 12 | Low voltage (48Vac) | Yes | 19" 9U rack | V | Harting 16p |
| R4CPUVS | 4 | Low voltage (48Vac) | No / with PC | 19" 6U rack | C - D - V | Harting 16p |
| R8CPUVS | 8 | Low voltage (48Vac) | No / with PC | 19" 6U rack | C - D - V | Harting 16p |
| R4PRMLV-C1 | 4 | Low voltage (48Vac) | Yes / remote | 19" 6U rack in flightcase | D | Harting 16p |
| R8PRMLV-C1 | 8 | Low voltage (48Vac) | Yes / remote | 19" 6U rack in flightcase | D | Harting 16p |
| R12PRMLV-C1 | 12 | Low voltage (48Vac) | Yes / remote | 19" 9U rack in flightcase | D | Harting 16p |
| B2PRMLV-C1 | 2 | Low voltage (48Vac) | Yes / remote | Wall unit | D | Harting 16p |
| B4PRMLV-C1 | 4 | Low voltage (48Vac) | Yes / remote | Wall unit | D | Harting 16p |
| B8PRMLV-C1 | 8 | Low voltage (48Vac) | Yes / remote | Wall unit | D | Harting 16p |
| B12PRMLV-C1 | 12 | Low voltage (48Vac) | Yes / remote | Wall unit | D | Harting 16p |

# STAGEMAKER®
## controllers
# R8CPU-VS

This range of STAGEMAKER® CONTROLLERS has been specifically developed for positioning and control of VERLINDE STAGEMAKER® (chain hoist) motors of the SM series in their single-speed, two-speed and variable speed versions. This modular system allows connecting up to 8 CPU units, each controlling or 8 motors. The STAGEMAKER® CPU CONTROLLER is easily integrated in a 19" rack.

# System description

The STAGEMAKER® CPU-VS CONTROLLER allows you to pre-program and control motors individually, simultaneously or by groups on a show stage.

The pre-selection, height adjustment and delays can be set separately in order to create multiple combinations in accordance with the various shows and stage sets in different rooms or studios.

The power supply and control functions are combined in the same unit; the hoists are connected by a single 16-contact cable.

The various positions of the hoists are determined by an incremental encoder; the information is then recorded and temporarily stored in the CPU in the event of a power failure

The selection can be defined for individual or group operation (with adjustable synchronization).

Activation of a motor safety component such as the ON/Emergency stop switch, load limiter, thermal protection device immediately shuts down the group of motors.

A phase inversion detection system is also included in the CPU.

A remote control for the "emergency stop" and "startup button" functions is available on option.

Manual operation is possible without the PC using touch keys and LED indication.

A safety system satisfying standard BGV-C1 (VBG 70) is available on option.

| Type | Channel | Control | Remote control | Packaging | For hoist version/type | Connections |
|------|---------|---------|----------------|-----------|------------------------|-------------|
| R8CPU-VS | 8 | Low voltage (48Vac) | Via PC | Vertical flightcase | V | Harting 16p |
| CC48 | up to 64 | Low voltage (48Vac) | Via PC | 19" 3U rack in flightcase | V | Ethercon RJ45 |

VERLINDE
LIFTING EQUIPMENT

# STAGEMAKER®
## other lifting products

We offer a wide range of products (manual and electrical)
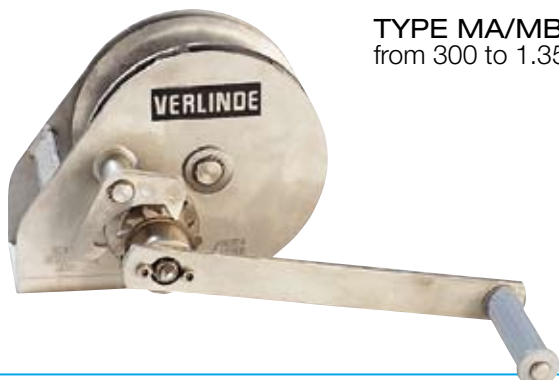for use in stage applications.

## winches



**TIRLIFT**
from 125 to 990 kg



**TYPE MA/MB**
from 300 to 1.350 kg

# hoists

## STAGEMAKER®
### hand chain block
### From 250 to 1.000 kg

- Comes with standard load limiter (except 250 kg model).

- **Optional:** chain bucket with 20 meter capacity and hoist transport grip.

# CHD

## Manual trolley
### from 250 kg to 10 tons

CHD trolleys enable suspension of all types of lifting devices equipped with a hook.

- Adjustable side plates.

- Travel is ensured by pushing or by hand wheel and chain.

- The rollers are mounted on ball-bearings with removable axle.

- The rollers are compatible with any type of monorail girder.

**Option :** trolley available with beam lock.

# training center

Our training center provides theoretical and practical courses on our products, as well as refresher courses to keep our customer staffs up to date with technical developments in the field of lifting and conveying equipment. These include courses on automatic control, on-board electronics, remote control systems, variable speed drives, …).

**VERLINDE**
LIFTING EQUIPMENT

# EUROSYSTEM *ALU*
## handling **aluminium**
## profiles

### ergonomic
Light rails means users can very easily and effortlessly handle heavy and cumbersome loads.

### accurate
Accuracy is ensured through high quality manufacture and smooth movements.

### anti-corrosion
The aluminium profiles are externally and internally anodised.

### economical
Reduce weight of supporting structure.

### technological
The beam is the result of the latest innovations in cold extrusion and structure optimisation.

### practical
The beam is compatible with all ITEM standard accessories.

### lasting
Strong resistancy to wear and tear is the result of anodisation and the roller materials.

### safety
The beam is guaranteed without welding.

### silence
Operates silently due to the precise manufacture of the movement surface.

## 4 sizes of beam :

- **AL06**, 6,5 kg a meter, up to 320 kg.
- **AL08**, 8 kg a meter, up to 500 kg.
- **AL10**, 10,6 kg a meter, up to 2 000 kg.
- **AL14**, 14,5 kg a meter, up to 2 000 kg..

## Reduced cost of supporting structures

- 2 times lighter than its steel equivalent.
- Easy to install and use.
- Economical for lifting structures.

KG

| | |
|---|---|
| Steel | Eurosystem alu |

## Alu Eurosystem in figures

Materials :
6063-T6
according to EN-AW

20 micron anodisation :
A6C0

Extrusion tolerance of beams according to standard :
EN 12020

Complies with applicable regulations according to standard :
EN 13001, EUROCODE 9

## Better workstation ergonomics and increased productivity

Compared with steel rails, when manually moving loads, the movement coefficient of the trolley rollers is greatly reduced in order to minimise operator effort.

FIRST MANUAL EFFORT

Steel

Eurosystem alu

| STARTING | MOVING | POSITIONNING AND STOP |
|---|---|---|

**VERLINDE**
LIFTING EQUIPMENT
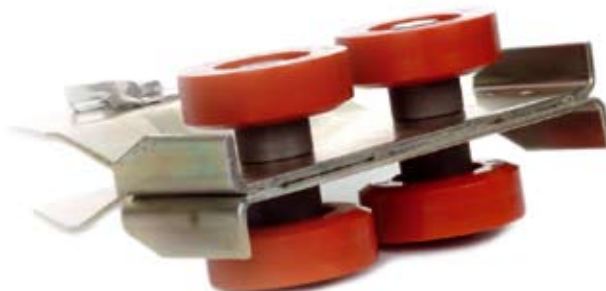
# Greater **accuracy** of movements and positioning attachment points.

# **Better management** of the stage area.

# **Can be fixed** to lifting structures in buildings.

## Monorail track up to 2000 kg loads

- Simple solution where loads are moved on 2 axes.
- Movement tracks and simple or complete circuit systems with direction changed by switch or turn table is also available.

## Options

- Available in black anodised version.
- Curved rail for circuits.
- Integral electrical supply.
- Transfer system.
- Switches.
- Turn table.
- Direction and/or motorised transfer trolleys with speed variation and power assistance using the R8CPU controller.
- Parallel supply to beam by integrated conductor.

## Suspensions

Mean that the whole handling system can be fixed to a lifting structure. Several suspension types are available depending on the type of beam used and the type of the host structure.

### Locking plates

Can be dismantled, they act as a buffer, dust protection and they complete the attractiveness of the installation.
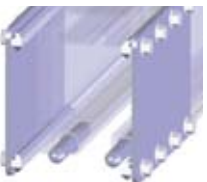
### Joining of rails

A perfect cut, pin pointer, 16 point locking system which is easy to implement : one of the features that make the difference.

## Direction and transfer trolley

- Synthetic rollers on ball bearing.
- High security suspension by ball thrust bearing.
- Double buffer.
- Available in a manual or motorised system version.

## Multiple single girder crane on two runways (encastred or suspended) for loads up to 2000 kg

- Ideal for covering the whole stage area and very easily creating attachment points on request.
- For the greatest ranges and heaviest loads.
- To cover the largest surfaces in 3 dimensions.
- The height required is reduced to the minimum.
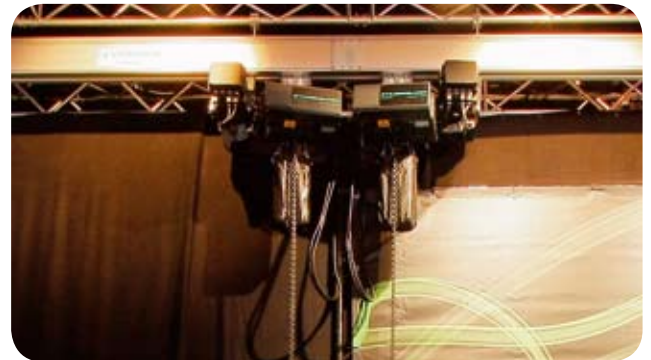
## Single girder suspended or encastred crane for loads up to 2000 kg

- To cover the largest surfaces in 3 dimensions.
- Ready to be installed to optimise lifting height.

**VERLINDE**
LIFTING EQUIPMENT