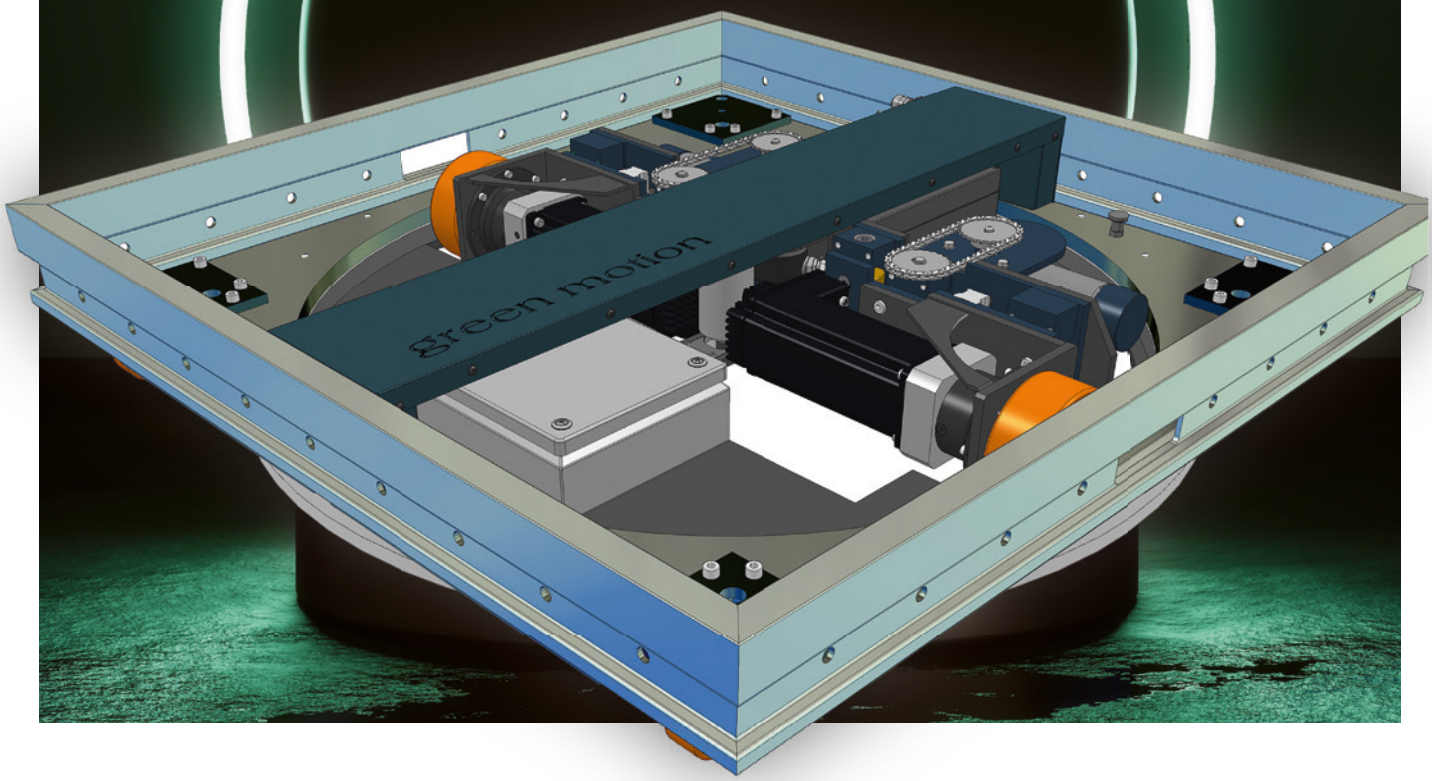
move a stage

VEKTOR IIIA



DRIVE MODULE FOR AREA-MOVABLE STAGE WAGONS

greenmotion

in corporation with

HOAC® Stage Technology

VEKTOR IIIA

THE STANDARD FOR AREA-MOVABLE STAGE WAGONS

SAFETY RADIO REMOTE CONTROL.

STOP CATEGORY 1 (EN 60204): After triggering an EMERGENCY STOP the machine is stopped with a controlled braking ramp.

STANDARD HEIGHTS
20 cm (incl. 21 mm cover plate).

Acceleration, deceleration and emergency stop with **SMOOTH JERK FREE** $\sin^2$-ramps.

All necessary components arranged within the module dimensions of **1 x 1 m.**

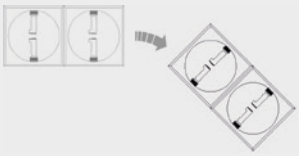
Safe stopping and immobilization even on slopes thanks to an integrated **STOP BRAKE** in each drive.

EMERGENCY-STOP
button complies with SIL3 according to IEC 61508.

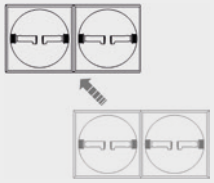
Powerful
48 V DRIVE ACCUS.

DRIVING MODES

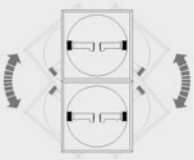
CORNERING
Execution of movements with any or fixed curves with variable speed and direction. In this driving mode, the drive module can also be used as a turnable drive.



OMNIDIRECTIONAL MOVEMENT
Execution of linear movements with variable speed and direction. The orientation remains unchanged.



ROTATION
Execution of turning movements on the spot with variable speed and direction of rotation.



FEATURES

- Double starting torque especially for stage wagons with a large number of support rollers.
- Infinitely variable travel speed from 1 mm/s ... 1.0 m/s.
- One drive module moves up to 3 t load.
- Drive wheels are detachable from driving surfaces by the integrated spindle drive, thus manual shifting possible (optionally also electrically, triggerable, via radio).
- Each drive wheel is individually spring-mounted to compensate for uneven floors.

ADVANTAGES

The patented „vector“ principle offers unique advantages

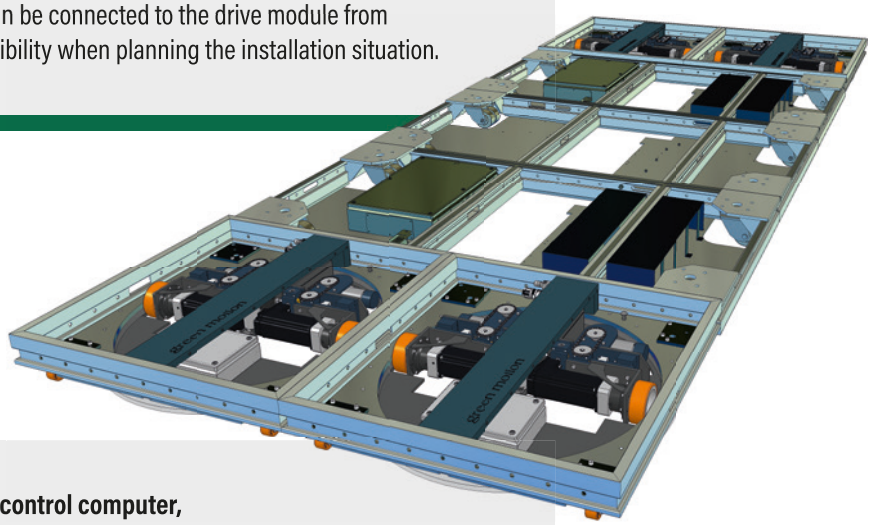
Steering of the drives is possible without the need for a steering motor. This saves costs and allows a low installation height.

Instead of a steering motor, a second travel drive is arranged. This means that twice the torque is available.

In contrast to the mecanum wheel, the drive wheels have a homogeneous running surface. This results in more favorable driving characteristics and very smooth running.

The drive modules are consistently designed for optimized installation dimensions

The associated control unit also requires module dimensions of 1.0 x 1.0 m. It is installed in a single unit. It is housed in a separate frame and can be connected to the drive module from all four sides. This ensures the greatest possible flexibility when planning the installation situation.



POWERFUL DRIVE CONTROL

The control module is equipped with a powerful control computer, which is ideally equipped for all conceivable tasks, for example:

Extension by an inductive, optical or magnetic tracking system.

Positioning control.

Teach-in: Up to 80 travels with a duration of up to 5 minutes can be stored and reproduced.

Feedback of status and control information to the control panel, such as charge status of the batteries, utilization of the drives, etc.

Pre-end and limit switches, additional EMERGENCY STOP buttons and many more.

One control module can execute a maximum of eight drive modules. Up to five control modules can be coupled together. This makes very extensive stage wagon landscapes possible and the system is well-suited for fixed installations of several stage wagons, movable individually and in combination.

Customized radio interface

For the transmission of arbitrary switching commands from the radio control panel to the drive module, an interface is available.

VEKTOR IIIA

CONTROL CONCEPT

Setup and monitoring are done via an 8-inch wireless rugged tablet.

Operation via safety radio remote control ...

... or from top-level control.

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