

# MOVIKIT® StackerCrane



## USE CASES / TYPICAL APPLICATIONS



### Storage/retrieval systems

The MOVIKIT® StackerCrane effiDRIVE can be used for all storage/retrieval systems with up to 4 travel axes and 4 lifting axes.



### Drive variants

- Single and double hoist
- TopDrive for vibration suppression
- Multi-drives with dynamic load distribution



### Further options

- Various load handling devices (MOVIKIT® CombiTelescope)
- Satellite storage/retrieval systems
- Safe bufferless end of the aisle

## THE ADVANTAGES AT A GLANCE



### Optimized for SEW drive technology!

Coordinated with SEW-EURODRIVE hardware. From gear unit and motor to drive technology, energy management and control technology.



### Quick startup!

Preconfigured software modules that can be easily started up and monitored using a graphical user interface.



### Straightforward operation and diagnostics!

The integrated process data monitor makes the standardized process data profile easy to operate.



### Intelligent power supply!

Regenerative power supply modules or storage solutions can be incorporated in project planning and used as required, depending on the application.

## AN OVERVIEW OF THE TECHNOLOGY

### Software

- Optimization of the travel cycles of lifting and travel drives achieves energy savings of up to 25%
- Further drive axes can easily be added with the MOVIKIT® software modules StackerCrane, MultiMotion and MultiAxisController
- Range of functions can be extended with MOVIKIT® add-ons (e.g. AntiSway) to add special functions for vibration damping.
- Always the same PD interface independent of the subordinate MOVIKIT® functions

### Power and Energy Solutions

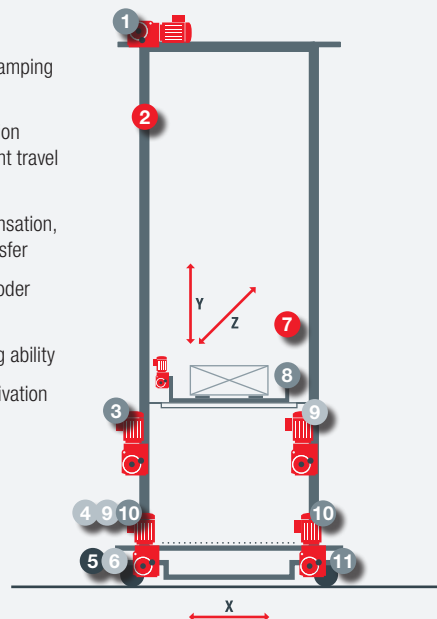
- Up to 40% reduction in energy consumption by means of storage solutions
- Using storage capacitors in the DC link reduces power peaks from the supply system by a factor of 7 to 10
- Intelligent power failure management
- Block or sinusoidal energy recovery using the latest technology

### Safety technology

- Meets tougher safety technology requirements (e.g. SLP, SLS, SBC) thanks to integrated safety technology

- 1 Top drive for vibration damping on the mast
- 2 TowerSway anti-oscillation control through intelligent travel profiles
- 3 Rope elongation compensation, also in case of load transfer
- 4 Electrical braking if encoder fault occurs
- 5 SRS units with cornering ability
- 6 Emergency mode/deactivation of external encoder

- 7 Anti-oscillation control – BellySway for load handling device
- 8 Auto leveling: Anti-skew also in the event of a fault
- 9 Energy-optimized XY operation
- 10 Anti-slip control
- 11 Combined encoder evaluation with increased position control loop gain



### Scope of functions of the MOVIKIT® StackerCrane effiDRIVE in combination with:

- MultiMotion
- MultiAxisController
- Motion add-on AntiSway
- MOVIKIT® Custom CurveDrive