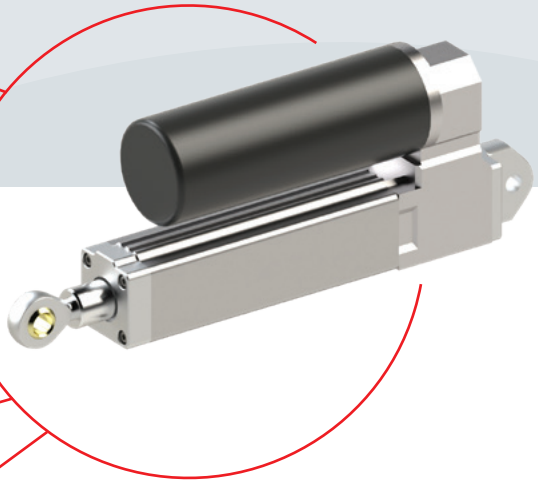
HYDAC INTERNATIONAL

KINESYS

Electric cylinders for mobile applications HEZm-1

- Oil-free – no leakage
- Simple integration – only electrical connections
- Energy-efficient – high cost effectiveness
- Optional: CAN connection with set value transmission for a speed control mode
- Low noise emissions
- High IP protection



Strong. Adjustable. Sustainable.

The HEZm-1 from HYDAC is an electromechanical linear actuator specially developed for applications in mobile machinery such as construction machines, agricultural machines and municipal vehicles. The electromechanical actuator consists of a spindle drive and doesn't require a hydraulic supply.

What this means for you:

- simple integration
- extremely low maintenance
- high energy efficiency
- cost-efficient solution
- compact design

- Dynamic maximum load up to 7.5 kN
- Static maximum load up to 15 kN
- Speed up to 45 mm/s
- Stroke up to 1,000 mm
- Voltages (DC): 12 V, 24 V, 48 V
- IP69K (static), IP67 (static) and IP66 (dynamic)
- Wide temperature range possible (-40° C to +85° C)
- Compact design, optimised dead space
- Integrated anti-rotation protection
- Electrically operated holding brake
- Ball screw spindle
- Motor temperature monitoring
- Easy adjustment of the limit switches with mechanical shifting

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And suddenly everything becomes so easy ...

… in agricultural machinery

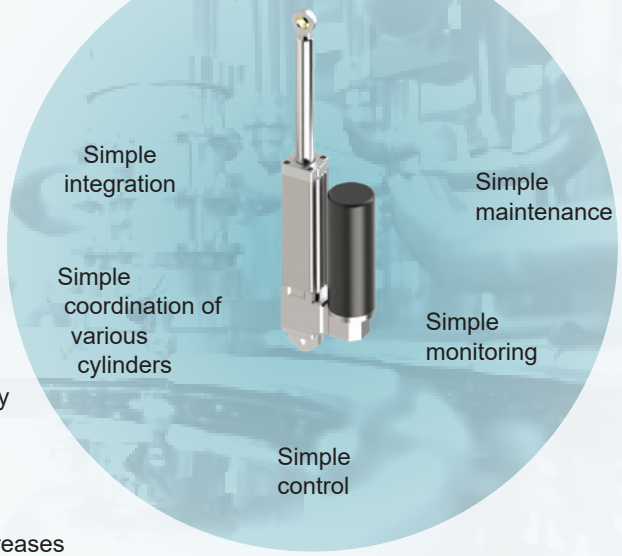
… in municipal vehicles

… in construction machines

… in lift trucks

… in custom applications

Inconspicuous, extremely reliable and relevant:
HEZm-1 electro-mechanical actuator



For all applications that are exposed to heat, dust, cold and vibrations.

Optimise your machine's efficiency:

With the electrification of mobile machinery, there is an increasing focus on the efficiency of the entire drive train. Small adjustment movements up to 7.5 kN can be implemented powerfully, efficiently and with ease with the HEZm-1 electromechanical actuator. Compared to hydraulic solutions, significant increases in efficiency can be achieved. This leads to lower energy consumption and a longer battery life.

Let the others raise dust if they want to. That doesn't phase our HEZm series.

In our daily routine, it's often not the big movements that define the quality. Complex machines that have to be able to withstand any weather conditions need reliable helpers that do exactly what they were designed to do, consistently and without maintenance. Easy installation is only one side of the coin, because quick removal, e.g. for repairs after malfunctions, is also a quality criterion for machines.

The purely electromechanical HYDAC cylinders from the HEZm series are helpers that are tried-and-tested in everyday use. They ensure exceptional longevity thanks to high-quality components, allowing them to become an active part of any sustainability strategy.

Some example applications:

Agricultural machines / combine harvesters

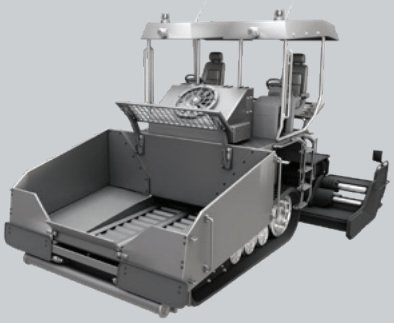
- Pivoting the grain tank auger
- Opening valves
- Adjusting grain threshing baskets

Municipal machines / sweepers

- Controlling the brush position
- Opening valves
- Simple integration and maintenance

Construction machines / tarmac pavers

- Precise positioning & holding
- High repeatability
- Condition monitoring



The work is tough.
And that's exactly what we developed it for.

Discover the whole HEZm range.

Scissors lift trucks

- Safe lifting & lowering
- Emergency lowering in the event of power loss
- Low-maintenance & environmentally friendly

Field sprayers

- Unfolding sprayer booms
- High IP protection class
- Robust

Sow now what you want to reap later: Reap the benefits of a reliable product.

Doing the same thing over and over again.
That's what our HEZm is made for.

Simply install it and never need to think about it again – Our electric cylinders make this possible.

- Force, speed and position control
- A float position is easy to achieve
- Synchronous operation and movement profiles for several actuators can be easily coupled
- Motor brake control
- With optional CAN connection and return of the actual value and error return

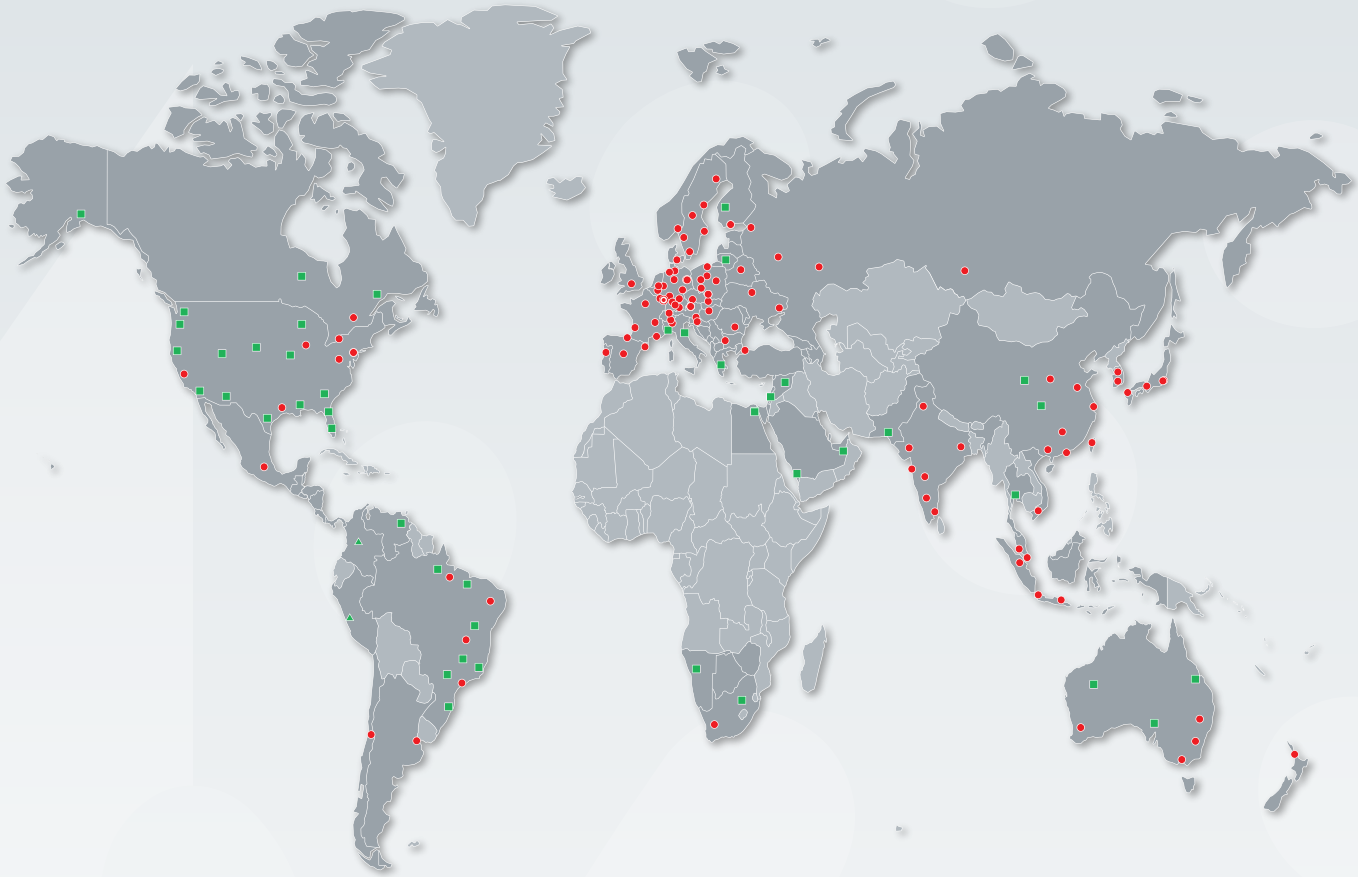
Contact

Let's tackle your challenge together.
We look forward to hearing from you!

Contact us at: **kinesys@hydac.com**

Or visit our website: **www.hydac.com/kinesys**

Global Presence.
Local Expertise.
www.hydac.com



- HYDAC Headquarters
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Note

The information in this brochure relates to the operating conditions and applications described. For applications and/or operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.

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