

MAHA INNOVATION CENTER

PIONEERING SOLUTIONS FOR THE MEASUREMENT
AND TESTING TECHNOLOGY OF TOMORROW.

**CONCEPT
VALIDATED**
BECOME A PILOT
CUSTOMER NOW



SQUARE DIRECTDRIVE
IN-GROUND LIFTING TECHNOLOGY
WITHOUT HYDRAULIC OIL.

made by MAHA
 made
in
Germany



PROVEN. EXCEPT THE OIL.

In-ground lifts save space. There are no columns cluttering the workshop floor, vehicles drive straight in, and the lifts pick them up. The technology is established and dependable.

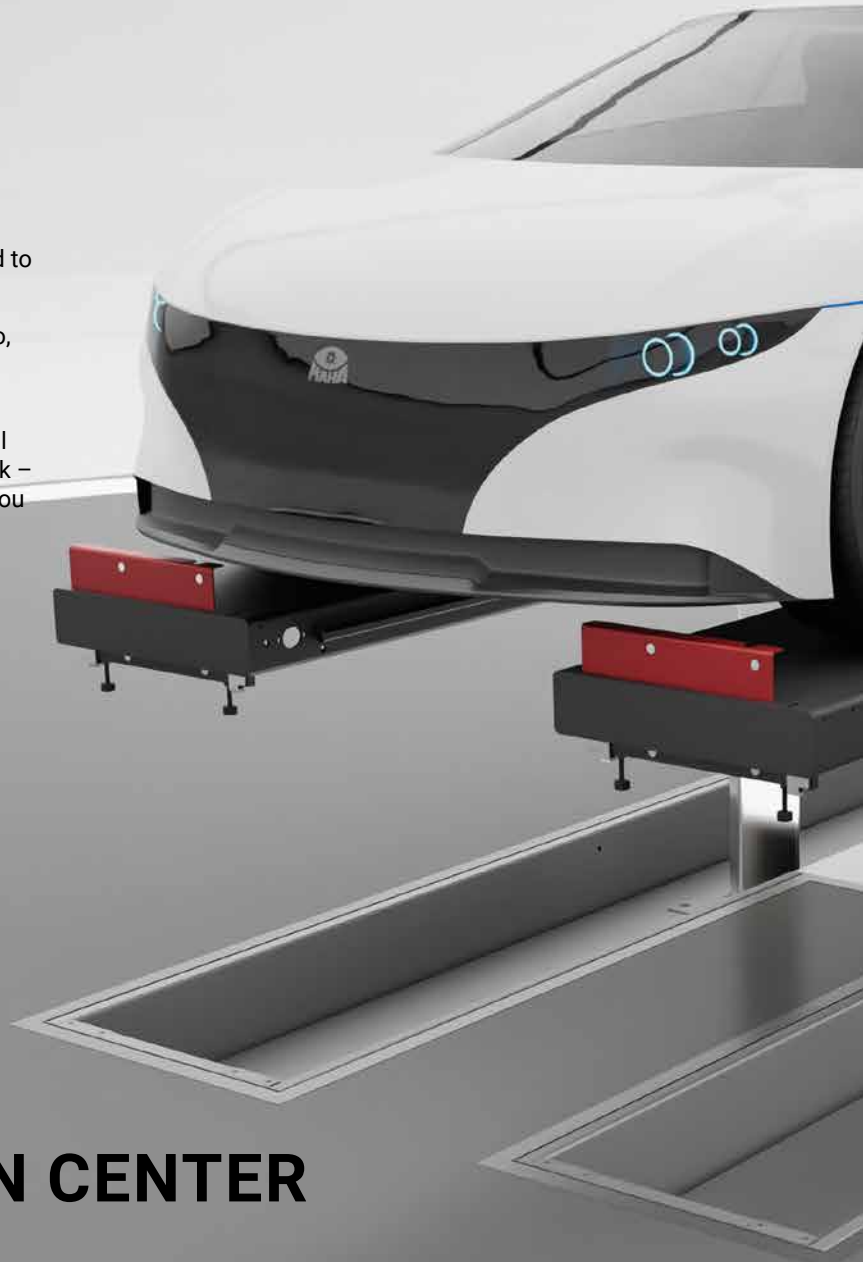
But every conventional in-ground system relies on hydraulics – cylinders, pressure pumps, hydraulic hoses, a power unit and oil.

And that causes three follow-on problems for the workshop: permits, the environmental and disposal risk in case of leaks, and regular maintenance – all of which are detailed below.

Until now, the trade-off has been either hydraulics – with everything that comes with it (including an oil-tight foundation) – or a classic post lift that needs a different kind of space.

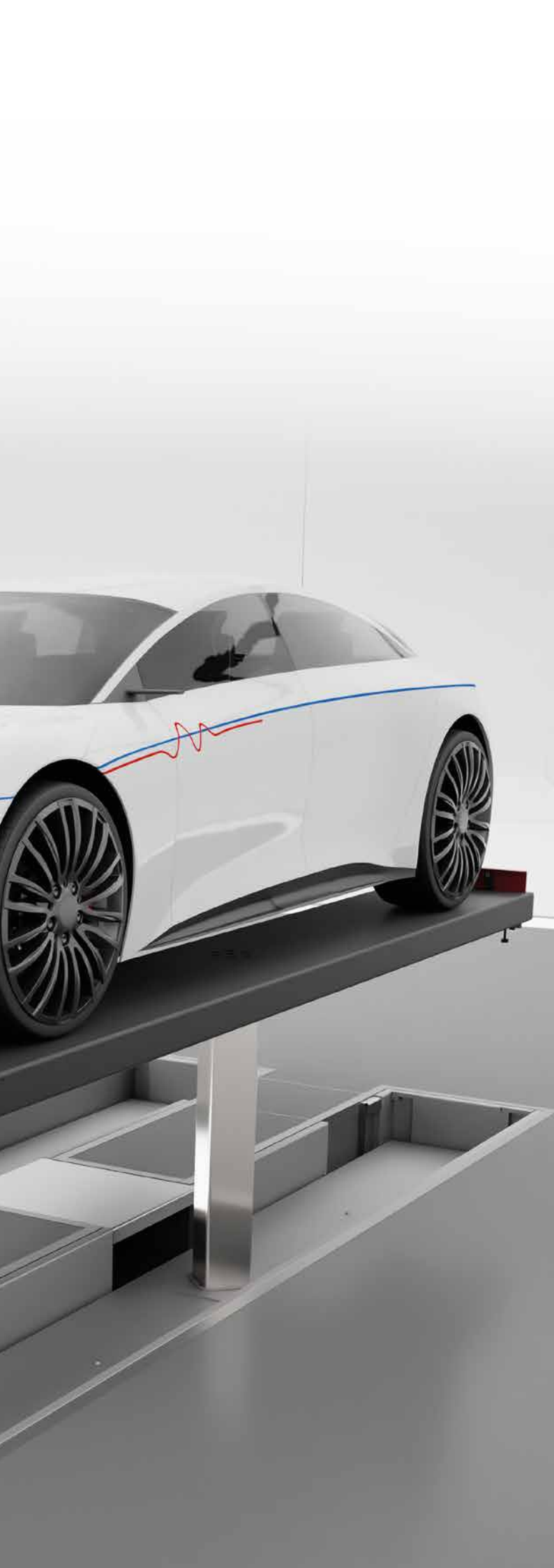
OIL. AND EVERYTHING THAT COMES WITH IT.

- **Permits:** Requirements under water protection law need to be met when a conventional in-ground lift is installed.
- **Environment and disposal:** Leaks can happen. If they do, the oil for disposal and any ground potentially needing decontamination count as hazardous waste.
- **Regular inspection and maintenance:** Pressure tests, oil changes, hydraulic hose replacements and cylinder work – predictable cost and time commitments, but not ones you can avoid.



MAHA INNOVATION CENTER

SQUARE DIRECTDRIVE. IN-GROUND LIFTING TECHNOLOGY WITHOUT HYDRAULIC OIL.



ELECTRONIC SYNCHRONISATION.

The electronics keep both sides perfectly in sync – for exactly even lifting and lowering – every single time.

ZERO HYDRAULIC OIL.

The drive is purely electromechanical – no cylinders, no pumps, no power unit and no oil circuit whatsoever.

SMOOTH MOVEMENT.

The spindle drive delivers constant lifting performance – whatever the temperature or workshop conditions.

MECHANICAL SELF-LOCKING.

Even during a power failure, the vehicle stays safely in position – there's no pressure loss, and no risk of it slowly lowering.

THE TECHNOLOGY AT A GLANCE.

ELECTRIC DIRECT DRIVE.

The motor and load nut form a single integrated unit – converting rotation straight into linear movement, with no steps in between.

IN-GROUND DESIGN.

Designed for cars and vans. The vehicle drives straight in, there's no post space to work around, and the path to the next workstation stays clear.

NO HYDRAULIC OIL.

With no cylinder, pump or power unit, there's no leakage or disposal risks – and no movement fluctuations caused by changing oil viscosity.

LOW- MAINTENANCE.

No oil changes, no pressure tests and no cylinder maintenance.

ELECTRONIC SYNCHRONISATION.

Both sides lift and lower as one.

MECHANICAL SAFETY.

The spindle is mechanically self-locking, so the vehicle stays exactly where it is, even during a power failure. This feature is backed up by electronic fault detection.

TIMING

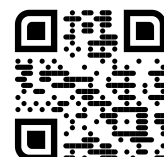
CURRENT STATUS:
CONCEPT PHASE

NEXT STEP:
TECHNICAL PROTOTYPE /
VALIDATION WITH PILOT PARTNERS

TARGET VISION:
PREPARATION FOR A
POSSIBLE MARKET LAUNCH



MAHA SE & Co. KG
Hoyen 20
87490 Haldenwang
Germany



maha.de