HEXAGON
MANUFACTURING INTELLIGENCE

PRODUCT BROCHURE

ROMER GRIDLOK

EXPANDED MEASUREMENT SYSTEM FOR THE ROMER ABSOLUTE ARM

ROMER GridLOK is an expanded measurement solution that allows the accuracy and convenience of the ROMER Absolute Arm to be applied to the inspection and measurement of larger parts and systems.

Designed for a single moving arm or a multiple arm array, the unique ROMER GridLOK solution delivers enhanced measuring accuracy and productivity across a massively increased measurement arena.

Measure More

Maintain ROMER Absolute Arm accuracy when measuring multiple or larger parts across a defined grid area (4 m x 6 m up to 60 m x 60 m).

Enhance Accuracy

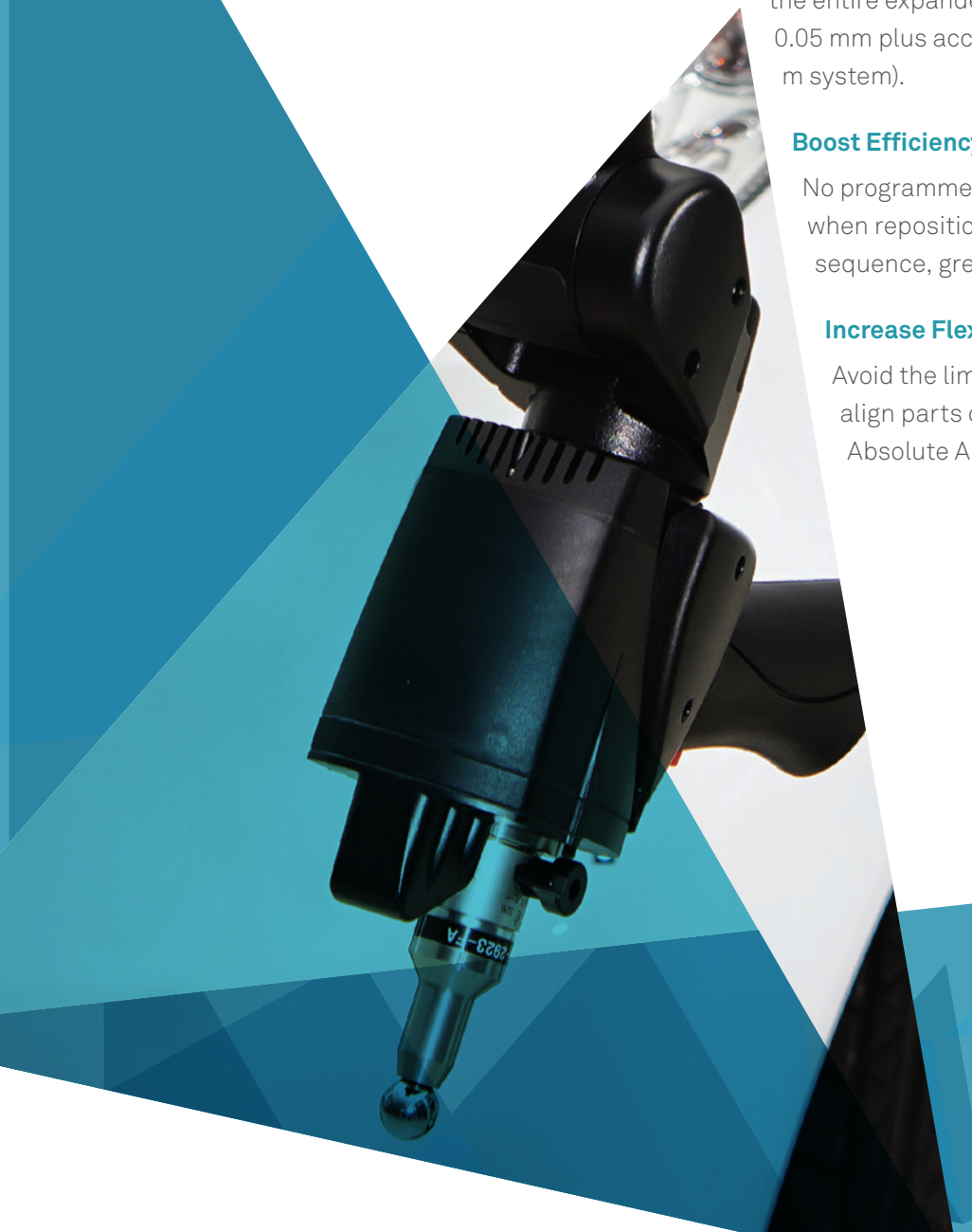
Eliminate error accumulation from 'leap-frog' measurements, maintaining uniform accuracy through the entire expanded measurement volume (accuracy 0.05 mm plus accuracy of arm in use for typical 4 m x 6 m system).

Boost Efficiency

No programme interruption or user input required when repositioning, even during a measuring sequence, greatly minimising training requirements.

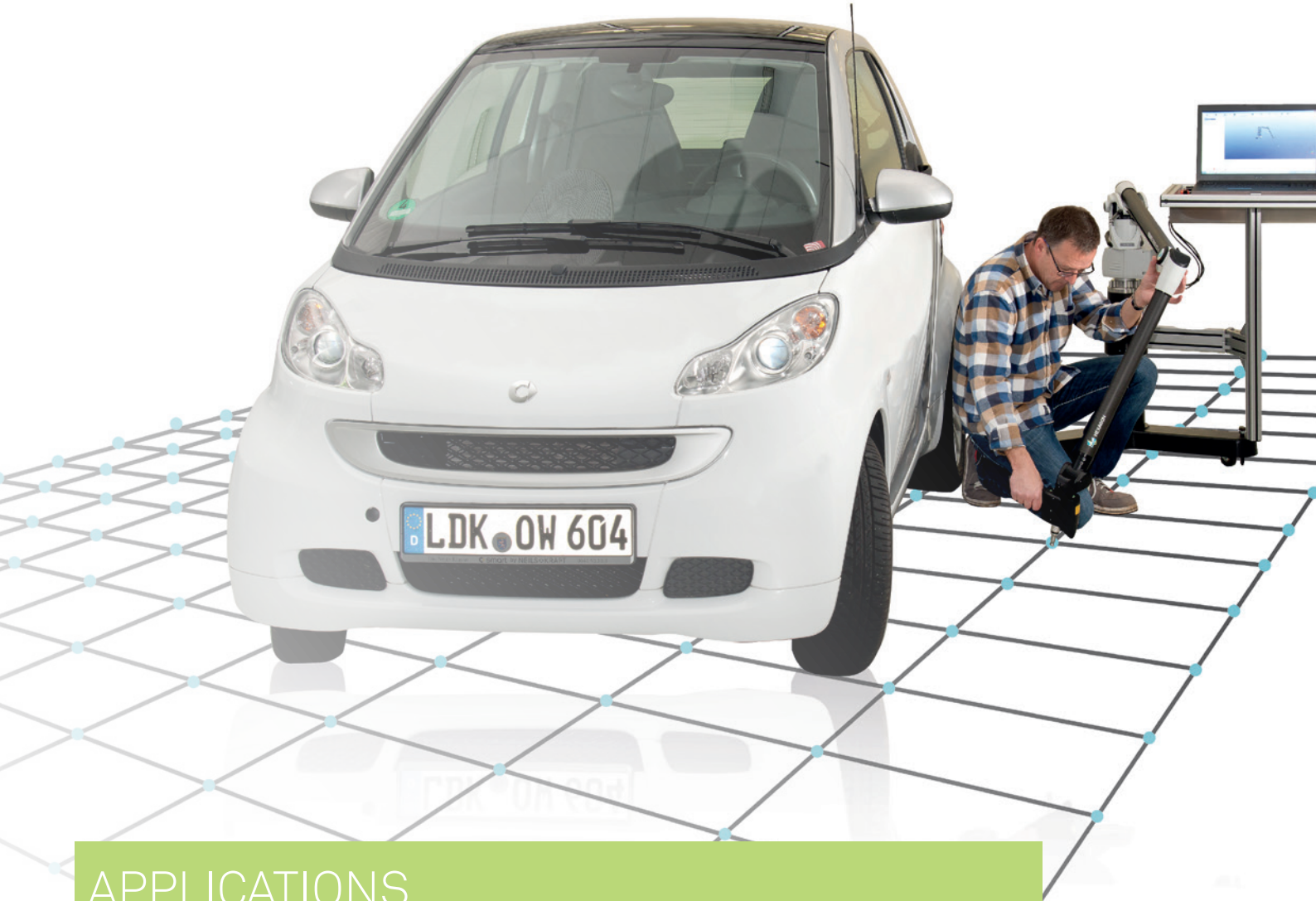
Increase Flexibility

Avoid the limitations of arm length – measure and align parts ordinarily out of reach of the ROMER Absolute Arm.



HOW IT WORKS

- Customised grid network of reference targets installed in the ground or mounted on steel plate to define expanded measurement space.
- Reference target positions certified by high-performance Leica Absolute Tracker upon installation – a one-off operation creating an extended global 3D coordinate system.
- The ROMER Absolute Arm aligns to the extended coordinate system by measuring any three reference targets with the touch probe.
- Further measurement from alternative arm positions requires only repeating this step from the new position – the number of measurement positions is unlimited.



APPLICATIONS

- Large jigs and fixtures
- Tooling for sheet metal / body in white processes
- Commercial vehicles
- Agricultural equipment
- Mining and construction machinery
- Automotive design and styling
- Oil and gas equipment
- Aerospace construction
- Boat building

ROMER GridLOK is compatible with all ROMER Absolute Arm models, although we recommend use with ROMER Absolute Arm units of at least 3 m in length. We also recommend the use of a Brunson tripod with each ROMER Absolute Arm used with the ROMER GridLOK system, to allow greater ease in adjusting the arm's position.

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