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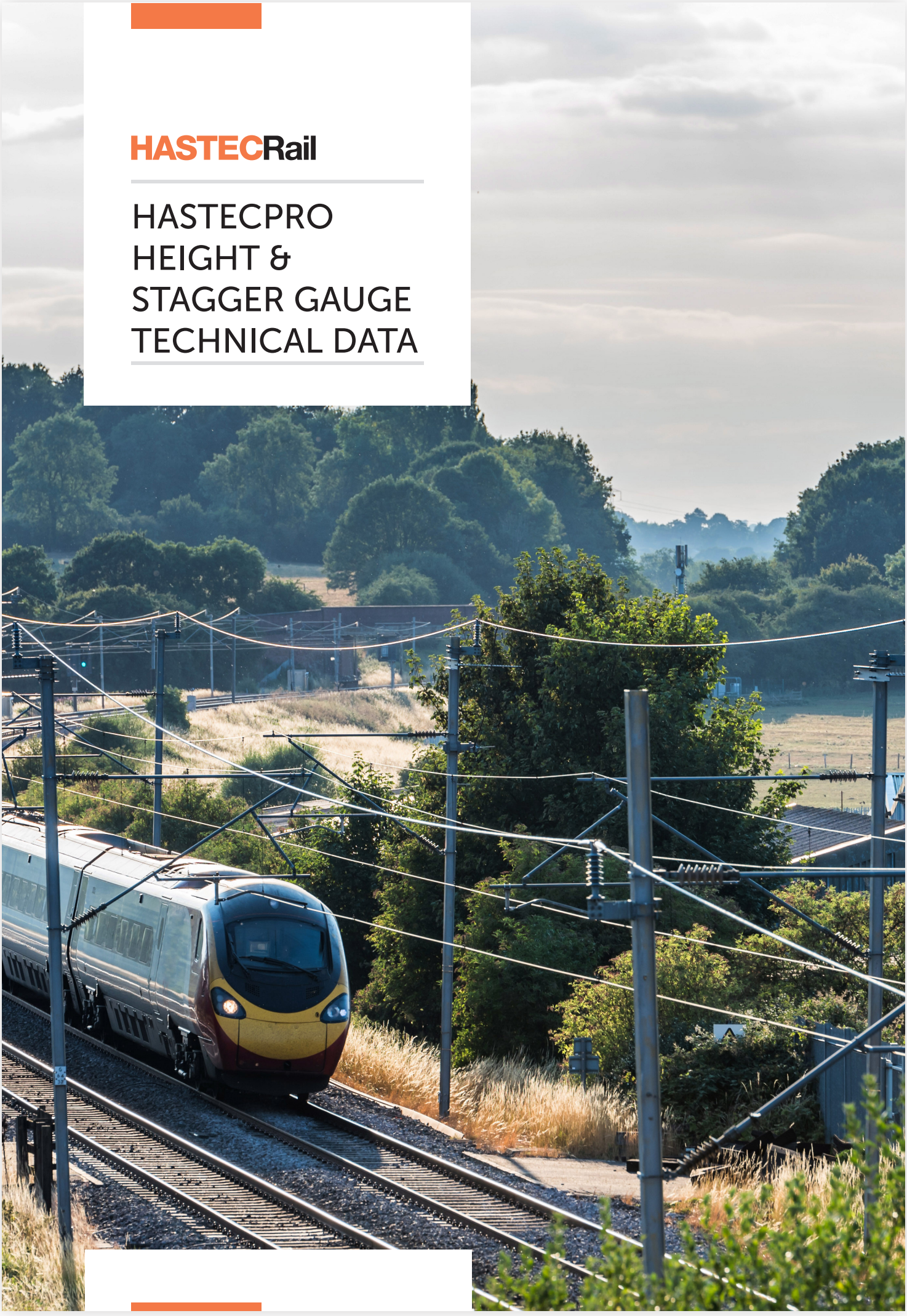
HASTECPRO HEIGHT & STAGGER GAUGE TECHNICAL DATA



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HASTECPRO
HEIGHT AND STAGGER GAUGE

Developed in collaboration with NR maintenance and OLE construction teams, to eliminate design & operational faults in their existing equipment.

THE REMIT WAS TO:

- Reduce cost in unnecessary rework.
- Increase accuracy and reliability.
- Increase robustness of equipment.
- Improve speed and accuracy of data capture.
- Improve user ergonomics.
- Improve reliability or the surveyed infrastructure.

MANUFACTURED CONSTRUCTION:

- High accuracy CNC machined components using aerospace grade engineering materials.
- Utilising proven high accuracy technology into the construction.

RELIABILITY:

- Prototype testing – 1460 tests over 2 years with no failures or loss of accuracy.
- IP65 Rated, Self Lubricating Bearings, Robust Chassis Design.

REPAIR SIMPLICITY:

- Standard repair packages available for “Self Repair”.
- Simple precision components allow easy replacement (including “In the Field” fixes with appropriate training).
- Remote assistance available for troubleshooting. (Requires active WiFi/Internet connection).

USER FRIENDLY:

- Ergonomic designed to allows operation in a standing position.
- Durable and robust design

Photo taken at time of testing and may not be accurate

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DESIGN DETAILS

INTELLIGENT WORKING

- Intelligent device working – Bluetooth link to tablet
- Paper free recording - emailed to designated address for rapid process
- Customisable templates for data recording & linking to the Network Rail reporting system.

CHASSIS DESIGN

- Simple "Lift and Lock" mechanism for ease of use.
- CNC machined drive gears for continuous accuracy.
- Rigid construction, 0.28mm deflection @ 300N Load.

LASER GAUGE

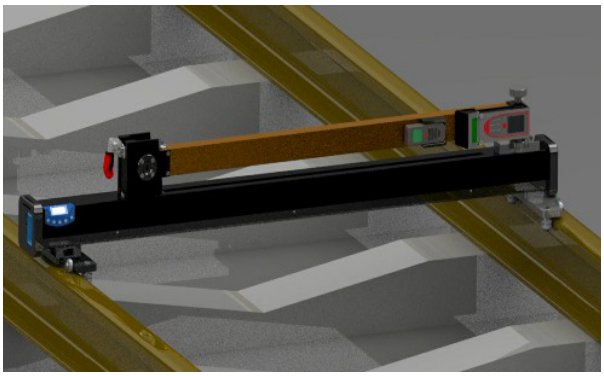
- HD Colour Viewfinder for simplicity of operation
- IP65 Rated for all weather operation
- +/- 1mm @ 200m Accuracy

DURABLE DESIGN

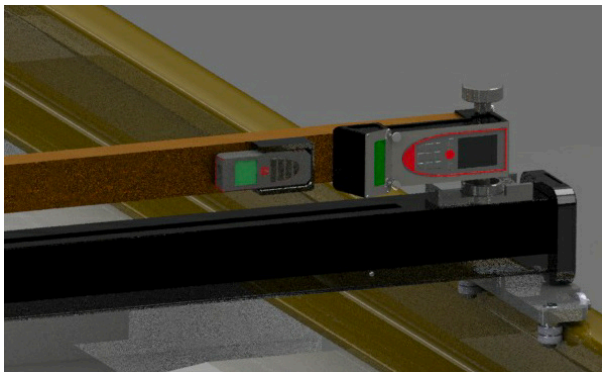
- Optimised for increased strength and rigidity, using lightweight components and materials, allowing single person usage and transport.

Photo taken at time of testing and may not be accurate

ADVANCED TECHNOLOGY



HASTECPro overhead height and stagger measuring system fits to the rail with an auto adjustable pressure system, this removes the chance of run away when moving along the rails via the end carriage bearing systems.



The HASTECPro has a unique pillar holding system, this prevents damage when in transit to and from the work site and comes complete with REFOS EDM reader storage.

Features a vertical mast for better ergonomic measuring for the operator, complete with a clear digital stagger display readout at eye level, reducing the operators need to kneel and bend.

Adjust the stagger with the ergonomically placed roller handles with simple hand pressure and take a reading to 0.1mm from the datum rail. Take measurement readings in daylight with the built-in camera system on the reader screen as well as back light and laser point at night and of cause its IP65 rated (water shock and dust proof) and accurate to 0.1mm and both day and night measurements digitally transfer the data to the tablet, so no more writing in the rain and then spending hours translating the information to a spread sheet. The system transfers it from the tablet to the office.

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SPECIFICATIONS/TECHNICAL DATA

Description	HASTECPro
Material	Aluminium & Composite Plastic
Weight	Approx 11Kgs
Running Gear	Roller Bearings
Maintenance	Minimal
Units of Measure	m, ft, in, mm
Measurement Range	0.5 M to 200 M
Accuracy	± 1.0 mm @ 200 M
Battery Life	Up to 8h operation time Up to 4,000 measurements (Reduced when used with Bluetooth)
Operating Temperature	Min: -10°C Max: 50°C
Laser Device Protection	IP 65 (dust tight and jet water protected)
Bluetooth Communication	V 4.0 Smart
Supported OS version	Windows 10
Laser	In accordance with IEC60825-1

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