

Certificate of Acceptance

PA05/03121

Manufacturer:
Abtus Ltd

Issue : 3
Valid From : 05-01-2021

ABT4640, ABT8000 and ABT8100 Laser Height and Stagger Gauge

Product Description

The ABT4640, ABT8000 and ABT8100 provide laser OLE height and stagger measurements.

The ABT4640 provides a laser measurement of height, using a Hilti laser and manual readout of stagger.

The ABT8000 has the capability to datalog height, stagger, REFOS, cant and GPS position. These measurements can then be displayed on the integrated screen or transferred via wireless connection to a tablet where the data logging is performed.

The ABT8100 is a variation on its predecessor, the ABT4640, with a laser measuring height via a Hilti laser device and manual recording of stagger. This unit does not offer the capabilities of data logging.

Product Image



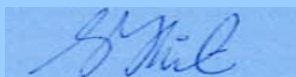
Scope of Acceptance

The ABT4640 Laser Height & Stagger gauge is granted **Full** Product Acceptance in accordance with the terms and conditions identified on this certificate and associated reference documentation.

The ABT8000 Data Logging Laser Height & Stagger gauge is granted **Full** Product Acceptance in accordance with the terms and conditions identified on this certificate and associated reference documentation.

The ABT8100 Laser Height & Stagger gauge is granted **Full** Product Acceptance in accordance with the terms and conditions identified on this certificate and associated reference documentation.

Network Rail Acceptance Panel (NRAP) hereby authorises the product above for use and trial use on railway infrastructure for which Network Rail is the Infrastructure Manager under the ROGS regulations.
Authorised by:



Sam Flint
Product Acceptance Coordinator



Malcolm Miles
Network Technical Head of Plant

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Specific Conditions

The following Conditions are specific to the approved product/s contained within this Certificate. These conditions must be adhered to in addition to the Network Rail General Conditions contained within the "General Terms and Conditions" section. Failure to adhere to these conditions may result in the withdrawal or suspension of Acceptance of some, or all of the items contained within the accepted configuration.

Manufacturer

- 1) See 'General Terms & Conditions' on this certificate.

User

- 1) The Abtus ABT4640, ABT8000 and ABT8100 must be operated and maintained in accordance with the Original Equipment Manufacturer's instructions. All maintenance is to be conducted by the OEM and/or by suitable competent delegated maintainers.
- 2) The ABT4640, ABT8000 and ABT8100 shall only be used in accordance with:
 - A compliant Safe System of Work
 - A work package plan, WARA/TRCS or company equivalent document
 - NR/L2/RMVP/0200, Infrastructure Plant Manual
- 3) Prior to operation the user is responsible for conducting all pre-use checks as defined within the Operator's Manual. If a defect is discovered before or during use the product must be immediately removed from service, labelled 'Do Not Use' and returned to the supplier.
- 4) Users to ensure that the product is kept in calibration to ensure that the measurements are within specification.
- 5) Appropriate PPE must be work at all times whilst the equipment is being operated.
- 6) All staff required to use the equipment shall be suitably trained and, where appropriate, qualified as competent to use it.

Product Configuration

System or Complete Assembly

Part No.	Description	Catalogue No.
ABT4640	Height and Stagger Gauge	094/007046
ABT8000	Laser OLE Height and Stagger measurement with data logging and GPS position	0094/007104
ABT8100	Laser OLE Height and Stagger measurement	0094/007105

Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
--	Hilti Technical Specification sheets for the PD32 Laser Height and Stagger Gauge	--	--	1
FM 25692	ISO 9001:2015 Certificate of Registration	--	14-01-2019	2
1476	RISQS Certificate of Audit	--	17-12-2020	2
1476	RISQS Certificate of Verification	--	18-05-2021	2
ABT8000 EC	ABT8000 EC Declaration of Conformity	--	09-11-2020	2
ABT8000 IPR	ABT8000 Statement of IPR	--	16-10-2020	2
--	ABT8000 System Interface Statement	--	16-10-2020	2
8000-GA	ABT8000 Top Level Drawing	--	24-06-2020	2
--	ABT8000 Training Recommendation	--	07-09-2020	2

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Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
RA01	ABT8000 Safety Risk Assessment	1	16-10-2020	2
ABT8100 EC	ABT8100 EC Declaration of Conformity	--	09-11-2020	2
ABT8100 IPR	ABT8100 Statement of IPR	--	16-10-2020	2
--	ABT8100 System Interface Statement	--	16-10-2020	2
8100-GA	ABT8100 Top Level Drawing	--	21-09-2020	2
--	ABT8100 Training Recommendation	--	07-09-2020	2
RA01	ABT8100 Safety Risk Assessment	1	16-10-2020	2
TRUK/B 20/088	Principal Questions Report	1	16-11-2020	2
TRUK/TN 20/232	PA05/03121 Plant PA Checklist	--	09-11-2020	2
TRUK/TN 20/233	RIS-1701-PLT Checklist	1	12-11-2020	2

Manuals and Training Materials

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
8000-1	ABT8000 Data Logging Laser Height & Stagger Gauge	1	11/2020	2
8100-1	ABT8100 Laser Height & Stagger Gauge	1	11/2020	2

Certificate History

Issue	Date	Issue History
1	21-04-2008	First accepted for use.
2	10-11-2020	Addition of ABT8000 and ABT8100.
3	05-01-2021	Revision to Limitations of Use, remove restriction of in-possession operation only.

Contact Details

Manufacturer

Abtus Ltd
Sam.Parrett@abtus.com

Applicant

Abtus Ltd
Sam.Parrett@abtus.com

Lead Reviewing Engineer

Adrian Staples
Adrian.Staples@uk.tuv.com

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General Terms & Conditions

1) General

- 1) This certificate can only be amended by Network Rail Product Acceptance, the Professional Head or nominated delegate. Any alterations made by a other persons will invalidate the entire certificate.
- 2) Failure to abide by the requirements in this Certificate of Acceptance may invalidate the certificate, thereby restricting the right to operate the product and / or limiting the future supply and deployment of the product on the infrastructure.
- 3) Upon the review date this certificate and the product it relates to is invalid and not accepted for use. Manufacturers are to make an application for a review prior to the review date.

2) Manufacturer

The Manufacturer shall:

- 1) Ensure that all products supplied comply with the standards defined in the Acceptance Requirements or otherwise documented as part of the assessment, including meeting the reliability requirements included in the Acceptance Requirements and in any deed of warranty for the relevant certificate number.
- 2) Notify Network Rail Product Acceptance:
 - a. Within 48 hours, of any deficiencies affecting the quality, functionality or safety integrity of the product (including corrective action undertaken or proposed).
 - b. Of any intended change to the accepted product; changes include:
 - i. a change to the product configuration (to the actual product or its application);
 - ii. a variation to or addition of manufacturing locations or processes;
 - iii. a change in the name or ownership of the manufacturing company;
 - iv. any changes to the ability or intention to support with technical services, spares or repairs.
- 3) The Manufacturer shall provide Network Rail Product Acceptance or National Supply Chain (NSC) at least 12 (twelve) months notice of its intention to discontinue supply or to provide such notice as is reasonable if such discontinuance is outside its control and will offer the opportunity of a Last Time Buy to Network Rail together with date for last order placement and supply of the parts affected. The introduction of proposed alternative products shall be communicated to Network Rail Product Acceptance.
- 4) Provide further copies of operating and maintenance manuals to purchasers / users of the product as necessary (including certificates of conformance, calibration etc).
- 5) Provide further copies of training manuals and an appropriate level of training to purchasers or users of the product as necessary.
- 6) Where applicable, specialist technical support, repairs and servicing of the product shall be carried out by the Original Equipment Manufacturer (OEM) or authorised agent only.
- 7) Network Rail may request information from the manufacturer to prove product compliance with clauses 1 and 2 above and reserve the right to suspend and/or withdraw any application where information is not forthcoming within a reasonable timeframe.
- 8) In accordance with Network Rail's Quality Assurance Policy Statement 2011, where the specification and/or Product Acceptance Certificates specify quality assurance classifications (QA1 to QA5) for the products, the manufacturer shall comply with the specified level of quality assurance for each product and allow Network Rail access to carry out its quality assurance checks.
- 9) The manufacturer shall give Network Rail's representatives access at all reasonable times to its premises and allow them to inspect its quality systems and production methods and, if requested, to inspect, examine and test the products both during and after their manufacture and the materials being used in their manufacture.

3) Conditions of Use

Specifiers, installers, operators, maintainers, etc. using the product shall:

- 1) Comply with the certificate conditions. If a condition is not understood guidance must be sought from Network Rail Product Acceptance.
- 2) Check that the application of use complies with the relevant certificate's scope of acceptance.
- 3) Report any defect if it is a design or manufacturing fault likely to affect performance and/or the safe operation of the railway in writing to Network Rail Product Acceptance.
- 4) Inform Network Rail Product Acceptance in writing of a change to the product configuration (or to the actual product or its application).
- 5) Operate, maintain and service the product in accordance with Network Rail standards and Operation and Maintenance manuals as appropriate.
- 6) Be appropriately trained and authorised for the installation, maintenance and use of the product.
- 7) Only send products for repair or reconditioning to the Original Equipment Manufacturer (OEM) or authorised agent.
- 8) Users are to be aware that Product Acceptance is not a substitute for design approval.

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Railways and Other Guided Systems (ROGS) Regulations

- 1) Where the product is to be used in areas where Network Rail is not the Infrastructure Manager (e.g. leased stations), the sponsor shall additionally obtain formal consent from the Infrastructure Manager for the locality where the equipment is to be installed. This may include a requirement for additional safety verification. The decision of that Infrastructure Manager is binding, and cannot be overridden by Network Rail except by the escalation processes established in the ROGS regulations
- 2) As required in Railway Group Standard GE/RT8270, at each use of this product the project or group responsible for installation and commissioning shall be required to demonstrate compatibility with:

- a. All rail vehicle types that have access rights over the area affected by the change
- b. Infrastructure managed by others
- c. Neighbours.

Railway Interoperability Regulations

- 3) For interoperable constituents of systems the project or group responsible for installation and commissioning shall be required to demonstrate compliance with the relevant Technical Specifications for Interoperability (TSI) where appropriate.
- 4) An authorisation from the national safety authority (i.e. the Railway Safety Directorate of the Office of Rail Regulation) is required before the equipment is to be used in revenue earning service.

5) Supply Chain Arrangements

- 1) Certificates of acceptance do not imply any particular quantity of supply nor any exclusivity of supply.
- 2) Products may be purchased by Network Rail or its agents, suppliers or contractors.
- 3) Manufacturers should note that it is not necessary to enter into any exclusive supply arrangements with resellers or other suppliers.