

Manufacturer:
Hilti (Gt. Britain) Limited

Issue : 2
Valid From : 08/07/2013

TE 1000-AVR Breaker

Product Description

Hilti TE 1000-AVR Breaker

Active Vibration Reduction (AVR) Breaker from Hilti.

Features:

- 1600w maintenance-free, brushless motor
 - Dust removal system
 - Hilti electronic theft protection system
- 1950 impacts/minute

Product Image



Scope of Acceptance

Full Acceptance

Acceptance to supersede the TE905-AVR originally approved under Railtrack Verification of Engineering acceptance NP/PT/0026/99.

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:

PP James Lewis
Technology Introduction Manager

PP Jim Allenden
Professional 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 and Conditions

User

- 1) Equipment must only be used by authorised personnel in accordance with mandatory rules and regulations, equipment operating instructions, and the operators declared safe system of work for ALL operational circumstances on Network Rail infrastructure
- 2) Equipment Operator(s) shall ensure that equipment is maintained in accordance with equipment manufacturers recommendations
- 3) Equipment Operator(s) shall ensure that all staff required to use the equipment are suitably trained
- 4) When red Zone Working safe system of work to consider noise of equipment in setting up protection arrangements. (Generator fitted with "Gifas" lookout cut out switch or use of touch lookouts.
- 5) Appropriate PPE must be worn at all times whilst the equipment is being operated
- 6) Additional PPE requirements are gloves and a face visor for flying debris
- 7) Ear Defenders are to be worn by all staff within a 10m radius from the unit
- 8)
 - Vibration and Noise
 - Time to reach EAV 2.5m/s² A(8) 25 minutes Time to reach ELV 5m/s² A(8) 1hour 39minutes
 - Chiselling
 - Time to reach EAV 2.5m/s² A(8) 1hour 11minutes Time to reach ELV 5m/s² A(8) 4hour 44minutes.
 - Lookout device not fitted
 - Peak Noise level 98dB
 - At 10m from unit, Noise level 80dB
- 9) When breaking out concrete safe system of work must consider the effect of any debris on the infrastructure
- 10) When tamping, care to be taking not to damage ballast shoulder and check required prior to tamping for signalling/points heating cables.

Product Configuration

System or Complete Assembly

Part No.	Description	Catalogue No.
02036602	Hilti TE1000-AVR (110V) Electric Breaker supplied complete with TE-S TT60 Chisel - Ballast Tamping Insert.	094/013090

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Hardware (Maintenance Spares and Line Replaceable Units)

Part No.	Description	Catalogue No.
00406787	TE-S-TT 60 Chisel (Ballast Tamping Insert)	094/013172
00406785	TE-S-SP 150 Clay Spade	094/013173
00406786	TE-S-SS Shank	094/013174
00001908	TE-S-STP 150/150 Head	094/013175
00406766	TE-SP-SM 50 Pointed Chisel	094/013176
00406771	TE-SP-FM 50 Narrow flat chisel	094/013177

Assessed Documentation

Reference	Title	Doc. Rev.	Date and Applies to Cert. issue No.	
----	TE 1000-AVR breaker Operators handbook		Undated	1
NP/PT/0026/99	Railtrack Verification of Engineering acceptance		16/09/1999	1
RIS-1701-PLT	RIS-1701-PLT		27/08/2009	1
RIS-1700-PLT	RIS-1700-PLT		27/08/2009	1
----	E-mail received from manufacturer confirming change to part numbers		08/07/2013	2

Certificate History

Issue	Date	Issue History
1	21/09/2009	First accepted for use
2	08/07/2013	Amended manufacturer part numbers for administrative purposes only. No change to product specification

Contact Details

Manufacturer	Sponsor
Colin Burnikell Hilti (Gt. Britain) Limited 1 Trafford Wharf Road Trafford Park Manchester M17 1BY Colin.burnikell@hilti.com	Martyn Willis Network Rail Rail Plant Support Engineer Martyn.willis@networkrail.co.uk

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General Terms & Conditions

1) General

- 1) This certificate can only be amended by Network Rail Technology Introduction Group. Any alterations made by a different person 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 Technology Introduction Group:
 - 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 Technology Introduction Group 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 the Network Rail Technology Introduction Group.
- 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 Technology Introduction Group.
- 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 Technology Introduction Group.
- 4) Inform Network Rail Technology Introduction Group 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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4) Compliance

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.