

PRODUCT PRESENTATION

- Applicant Name: HILTI (HONG KONG) LIMITED
- Product Name: Hilti Breaker TE 3000-AVR, Dust Removal System TE DRS-3000, Vacuum VC 40-U, Chisel TE-H28P SM
- Specification:
- General Information:
- Hilti TE 3000-AVR is an extremely powerful electrical breaker for concrete demolition. In addition to its superior performance, the Hilti TE DRS-3000 and vacuum VC series is compatible with Hilti TE 3000-AVR to achieve integrated dust-free construction job-site to elevate safety and productivity. Also, the exclusive Hilti wave chisel TE-H28P SM with "X" cross-section brings user's productivity to the next level.
- Core Functions: Heavy-duty floor demolition
- Key Improvement in Construction Process : At least 15% higher breaking performance comparing to conventional chisel



INNOVATIVE FEATURES








- Core Technology:

- Hammering power comparable to pneumatic hammer – general electric power source from jobsite
- Special chisel design – at least 15% higher breaking performance comparing to conventional chisel
- Active Vibration Reduction (AVR) Technology - reduces vibration by up to two-thirds compared with conventional tools

- First Launch Date: 2019

- Awards (if applicable): Product Design Award 2010.

- Comparison with current practice and popular models

	Hilti TE 3000-AVR	Bosch GSH 27 VC	Makita HM1810	Wacker EH25	DeWalt 25980K	Atlas Copco TEX 280 PE	Atlas Copco TEX 40 PE
Technical data							
Power rating (W)	2070	2170 (1900)	1930 (2000)	2500 (2200)	1600 (1800)	-	-
Compressed air consumption at 6 bar (l/min/sec)	-	-	-	-	-	32	40
Hammering speed (blows/min)	860	990 (1030)	1032 (1100)	1260 (1302)	870	(1230)	(1110)
Single impact energy (J) *	68	56 (69)	46 (63)	50 (70)	35 (68)	63,5	87,0
Triaxial vibration (m/s ²) **	7,0	10,8 (8,5)	9,2 (8)	5,0	(8,5)	10,8 (4,8)	7,5 (4,6)
Permissible working time (min./day) ***	245	117 (166)	142	480	166	103	213
Weight as per EPTA 1/2003 (kg) ****	29,9	29,5	31,6 (30)	26,2 (25)	31,4 (31)	(31,5)	(42)
Dimensions LxWxH (mm)	808x610x209	770x635x135	730x630x250	850x590x238	780x620x230	725	750
Features							
Vibration Reduction	Yes, Active Vibration Reduction Decoupled grips	Yes Semi-rotatable grips	Yes Coupled balancing mass in guide tube	Yes - Chassis concept, decoupled hammering mechanism	Yes Coupled balancing mass in guide tube	Yes Decoupled grips	Yes Decoupled grips
Chuck	TE-H28P (HEX28)	HEX 28	HEX 28	HEX 28	HEX 28	HEX 28 oder HEX 32	HEX 28 oder HEX 32
Strengths	Demolition performance on a par with air tools Low vibration Long lifetime (SR-motor)	Well-known brand "The Brute"	Price Good vibration reduction	Low vibration Low weight	Low vibration	-	High performance
Weaknesses	-	Low performance High vibration Lifetime	Low performance Weight Lifetime	Low performance Ergonomics, Starting characteristics Lifetime	Poor performance Weight	Performance Working comfort High operating costs Needs a compressor	Extremely high weight Working comfort High operating costs Needs a compressor
Benefits of the TE 3000-AVR to the customer compared to other electropneumatic breakers and air tools		TE 3000-AVR achieves 4 times the breaking performance over total tool lifetime - Performance at least twice that of other tools - Life at least twice that of other tools				The TE 3000-AVR is finished before air tools get started - In small demolition jobs - Easier to transport, quicker to set up - No compressor needed Air tool performance at 1/3 of the cost - Annual operating costs for an air tool and compressor are higher than the investment in the TE 3000-AVR	

BENEFIT -PRODUCTIVITY

- Improve productivity by:
 - Hammering power comparable to Pneumatic Hammer - Hilti TE 3000-AVR breaker is built to deliver extremely powerful performance in heavy breaking and demolition work on concrete or asphalt by up to 6 tons of concrete per hour. It has an impressive hammering impact energy of 68 joules for rapid progress in big concrete demolition jobs to boost productivity. Unlike pneumatic tools, Hilti TE 3000 does not need a bulky pneumatic generator but general electric power source from jobsite to operate.



BENEFITS - SAFETY

- **Improve Safety by: Active Vibration Reduction (AVR) Technology**

- Reduces vibration by up to two-thirds compared with conventional tools
- The triaxial vibration for chiseling in concrete is only 7 m/s². It provides efficient protection from the effects of long-term exposure to vibration such as Hand-Arm Vibration Syndrome. These features greatly reduce the efforts of workers thus elevate safety and productivity.

- **Hilti dustless solution – maintain dustless jobsite**

- It reduces dust/ fragment exposure that may negatively impact to the health of workers, preventing respiratory problems such as pneumoconiosis and even lung cancer.



Silicosis



Hand-Arm Vibration Syndrome

BENEFITS – ENVIRONMENTAL

- **Improve Environmental Performance by:**
 - Low noise level (Without the need of air compressor, the noise level will significantly drop from 130+dB to 100dB)
 - Work force and environment not exposed to CO2 emissions from compressor exhaust gases
 - No additional lubrication required, no de-icing of hoses needed as with air tools, no risk of fuel leakage and ground pollution as with compressors
 - Low air pollution when using dust removal system (DRS)

