VL Single Scabbling Hammer

Operation and Maintenance Manual









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DECLARATION OF CONFORMITY

We,	
Trelawny SPT Limited of Trelawny House, 13 Highd 1XT, United Kingdom,	own Road, Sydenham Industrial Estate, Leamington Spa, Warwickshire, CV31
Declare that under our sole	responsibility for supply/manufacture of the product
Name of product	*
Model, Serial Number	
Year of production	
to which this document rela Documents and their releva	ates is in conformity with the provisions of the following Directive(s), Normative ant Standards:
2006/42/EC	MACHINERY DIRECTIVE
2006/95/EC	LOW VOLTAGE DIRECTIVE (Applicable only to products using electric power)
EN ISO 11148-4:2012	HAND HELD NON-ELECTRIC (Non-Rotary Percussive Tools)

Date and place of issue, 24th June 2016 Leamington Spa, England.

CE

Rob Chapman, Managing Director.

Registered Office: Trelawny SPT Ltd, Trelawny House, 13 Highdown Road, Sydenham Industrial Estate, Leamington Spa, Warwickshire, CV31 1XT, United Kingdom



CZ	Prohlášení o přizpůsobení My, společnost Trelawny SPT Limited podajemy daňové přiznání, že výrobek a dodávka výrobku název výrobku Model, výrobní číslo Pro které se průkaz týkající, je přizpůsobení s zásoby od následující příkazov a jejich pohotovostní: 2006/42/EC Příkaz soustrojí 73/23/EC Příkaz nízkého napětí (upotřebitelne jedině do výrobku použití elektrickej energie)	LT	ATITIKTIES DEKLARACIJA Mes, Trelawny SPT Limite Prisiimdami visą atsakomybę, deklaruojame, kad tiekiamas / gaminamas produktas Produkto pavadinimas Modelis, serijos numeris Kuriam talikoma ši deklaracija, atitinka šių direktyvų, norminių aktų ir su jais susijusių standartų reikalavimus: 2006/42/EC [rangos direktyva 73/23/EC Žemos įtampos direktyva (taikoma tik elektriniams įrengimams)
DE	Ubereinstimmungserklarung Wir, Trelawny SPT Limited erklaren, dass unter unserer alleinigen Verantwortung fur die Lieferung und Herstellung des Produktes Name des Produktes Model, Seriennummer auf welches sich dieses Dokument bezieht, stimmt mit den Vorgaben der folgenden Direktive, normativen Dokumente und deren jeweiligen Masstabe ein: 2006/42/EC Maschineriedirektive 73/23/EC Nilederspannungsdirektive (nur zutreffend auf Produkte, die Strom benutzen)	МТ	DIKJARAZZJONI TA KONFORMITA Aħna, Trelawny SPT Limited Niddikjaraw li ahna responsabbli kompletament għal provista / manifattura tal-prodott hawn imsemmi : Isem II-Prodott Mudell, Serial number Dan id-dokument magħmul għal prodott imsemmi hawn fuq, li huwa skond ii-provizjonijiet imsemmija fid-dokumenti tal-klassi tax-xogħol : 2006/42/EC Machinery Directive 73/23/EC Low Voltage Directive (tapplika biss għal prodotti li jaħdmu bl-eletriku)
DK	Erklæring om overensstemmelse VI, Trelawny SPT Limited Erklærer hermed at under vores ene forhandling ansvar for vores forhandling/produktion af produktet Produkt navn Model, serie nummer For hvilket dette dokument referer, at det er i overensstemmelse med bestemmelser af følgende direktiver, normative dokumenter og deres relevante standart: 2006/42/EC Machinery directive 73/23/EC Low voltage directive	NL	EENVORMIGHEIDSVERKLARING Wij, Trelawny SPT Limited Vorklaren dat wij de volledige verantwoordelijkheid dragen voor het leveren/fabriceren van het volgende product: Naam van het product Type, Serienummer En verklaren dat het product waarnaar dit document verwijst eenvormig is met de voorzieningen van de volgende Richtlijn(en), Normatieve Documenten en hun relevante Standaarden: 2006/37/CE MACHINERICHTLIJN 73/23/CE LAAGSPANNINGSRICHTLIJN (uitsluitend van toepassing bij producten die elektrische stroom gebruiken)
EE	TOOTE VASTAVUSE DEKLARATSIOON Meie, Trelawny SPT Limited Deklareerime, et vastutame järgmise varustuse/toote müügi eest Toote nimetus Mudel,Seeria number Antud dokument tõendab toote vastavust järgmistele direktiivi(de)le, normatiivaktidele ja nendega samaväärsetele standarditele: 2006/42/EC MASINA DIREKTIIVID 73/23/EC MADALPINGE DIREKTIIVID (Kohandatakse vaid toodetele, mis kasutavad elektrivoolu)	PL	Deklaracja Zgodnosci My, Firma Trelawny SPT Limited, oświadczamy w naszej odpowiedzialności, ze produkcja i dostawa urządzenia Nazwa produkta Model, numer seryjny do którego ten dokument należy, jest zgodne z klauzulami nastąpujacych zarządzen i ich istotnych standartów: 2006/42/EC Zarządzenie mechaniczne 73/23/EC Zarządzenie niskiego napięcia elektrycznego (Zastosowanie tylko przy urządzeniach elektrycznoych)
EL	ΔΗΛΩΣΗ ΙΠΣΤΟΤΗΤΑΣ Η εταιρεία Trelawny SPT Limited Δηλωνει στο πισο μοναδική ευθυνή ωζ κατασκευαστή / προμήθευτή του παρακατω προιοντοζ περιγραφή προιοντοζ μοντελο, αριθμοζ σειραζ και στο οποίο αναφερεται αυτή ή δηλωσή, είναι συμβατό με τιζ προδιαγραφεζ που ορίζονται στιζ ακολουθεζ Κοινοτικέζ Οδήγιεζ Ελεγκτικέζ Διαταζείς κι αλλείς σχετικές προδιαγραφεζ 2006/42/ΕC ΟΔΗΓΙΑ ΠΕΡΙ ΜΗΧΑΝΗΜΑΤΩΝ 73/23/ΕC ΟΔΗΓΙΑ ΠΕΡΙ ΧΑΜΗΛΗΣ ΤΑΣΗΣ (αφορα μονον προιοντα που λειτουργουν με ήλεκτρικό ρευμα)	PT	DECLARAÇÃO DE CONFORMIDADE CE A empresa TRELAWNY SPT LIMITED Declara, sob sua inteira responsabilidade, que o fornecimento/fabrico do seguinte produto: Designação do produto Modelo, Número de Série a que esta declaração se refere, está em conformidade com o preceituado nas Directivas e Normas Comunitárias abaixo indicadas: 2006/42/EC DIRECTIVA DE MAQUINAS 73/23/EC DIRECTIVA DE BAIXA VOLTAGEM (Aplicável apenas a produtos que utilizam energia eléctrica)
ES	Declaración de Conformidad Nosotros, Trelawny SPT Limited Declaramos que bajo nuestra completa responsabilidad de la fabricación/suministro del producto Nombre del Producto Modelo, No de Serie A quién este documento se refiere, está de acuerdo con lo relacionado en la Directriz, Normativa Documentada y sus relevantes standards: 2006/42/EC Directorio de Maquinaria 73/23/EC Directorio de Bajo Voltaje (Aplicable solamente a productos que	RU	СВИДЕТЕЛЬСТВО О СООТВЕТСТВИИ Мы, Trelawny SPT Limited Заявляем, что несем полную ответственность за поставку/производство нижеуказанной продукции Наименование изделия Модель, серийный номер на которую выдано настоящее Свидетельство, и которая соответствует положениям следующей/сис Директива По на Механизмам 73/23/ЕС ДИРЕКТИВА ПО НЕХАНИЗМАМ 73/23/ЕС ДИРЕКТИВА ПО НИЗКОВОЛЬТНОМУ ОБОРУДОВАНИЮ
FI	funcionen con electricidad) ILMOITUSVAHVISTUS Me, Trelawny SPT Limited Vahvistamme tuotteiden toimittamisesta/valmistamisesta Tuotenimi Malli, sarjanumero Tällä todistuksella vahvistamme säädökset seuraviin ohje/ohjesiin, Yleisiin papereihin ja niihin liittyvät vaatimukset: 2006/42/EC KONEISTON OHJEET 73/23/EC PIENJÄNNITE OHJEET (tarvitaan ainoastaan tuotteille jotka käyttävät sähkovoimaa)	SE	(распространяется только на изделия с электропитанием) FÖRSÄKRAN OM ÖVERENSSTÄMMELSE VI, TRELAWNY SPT LIMITED FÖRKLARAR ATT VI MED ENSAMT ANSVAR ANSKAFFAT / TILLVERKAT PRODUKTEN PRODUKTNAMN MODELL och SERIE NUMMER TILL VILKEN DETTA DOKUMENT HÄNVISAR ÄR I ÖVERENSSTÄMMELSE MED FÖLJANDE DIREKTIV , NORMATIVA DOKUMENT OCH DERAS RELEVANTA STANDARDER 2006/42/EC MASKINDIREKTIV / TILLÄMPLIG PÅ ELEKTRISK DRIVNA PRODUKTER)
FR	DÉCLARATION DE CONFORMITÉ Nous, soussignés Trelawny SPT Limited déclarons que le produit sous-nommé Nom du produit Modèle et Numéro de Série et pour lequel nous prenons entière responsabilité pour sa fourniture et manufacture, est conforme aux clauses des directives suivantes, documents norminatifs et normes qui s'y appliquent: 2006/42/EC DIRECTIVE POUR LA MACHINERIE 73/23/EC DIRECTIVE POUR BAS VOLTAGE (n'est applicable qu'aux produits utilisant l'énergie électrique)	SI	IZJAVA O SKLADNOSTI Trelawny SPT Limited pod polno odgovornostjo izjavljamo, da so spodaj navedeni proizvodi, ki jih dobavljamo/proizvajamo: Ime proizvoda Model, serijska številka na katere se ta dokument nanaša, proizvedeni v skladu z določili naslednjih direktiv, normativnih dokumentov in njihovih relevantnih standardov: 2006/42/EC DIREKTIVA O STROJIH 73/23/EC DIREKTIVA O STROJIH Z NIZKO VOLTAŽO (nanaša se samo na proizvode na električni pogon)
HU	MEGFELELŐSÉGI NYILATKOZAT Mi, A "Trelawny SPT Limited" cég Felelősségünk tudatában kijelentjük, hogy mint a termék szállítója/ gyártója Termék neve Tipus, Sorozatszáma amelyre jelen dokumentum vonatkozik, megfelel az alábbi Irányelv(ek), Irányadó Dokumentumok előírásainak, és az azokat meghatározó szabványoknak: 2006/42/EC GÉPÉSZETI IRÁNYELVEK 73/23/EC KISFESZÜLTSÉGŰ IRÁNYELVEK (Csak az elektromos meghajtású gépeknél)	TR	UYGUNLUK BEYANI Trelawny SPT Limited Aþaðýdaki, üretim ve tedaríkinden tek baþýna sorumlu olduðu ürünün Ürün adý Model/Seri no bu belgenir ilgili olduðu aþaðýdaki yönetmeliklerin, norm belgelerinin ve ilgili standartlarýnýn koþullarýna uygun olduðunu beyan eder: 2006/42/EC MAKÝNALAR YÖNETMELÝÐÝ 73/23/EC DÜÞÜK GERÝLÝM YÖNETMELÝÐÝ (Yalnýýz elektrikle çalýþan ürünlerde geçerlídir)
IT	DICHIARAZIONE DI CONFORMITA La Società Trelawny SPT Limited Dichiara, sotto la propria responsabilità, che la fornitura / produzione del prodotto nome prodotto modello, codice a cui si riferisce tale documento è conforme alle seguenti Direttive, ai documenti della Normativa ed ai relativi standard: 2006/42/EC DIRETTIVA SULLE APPARECCHIATURE 73/23/EC DIRETTIVA SULLE ASSO VOLTAGGIO (applicabile esclusivamente per i prodotti che utilizzano energia elettrica)		

INFORMATION

General Information

Before operating Trelawny Vibro-Lo Scabbling Hammer, this manual must be read and understood by the operator, if in any doubt, ask your supervisor before using this equipment. Local safety regulations must be followed at all times. Failure to follow these instructions could result in damage to the Scaler and/or personal injury.

Trelawny SPT Ltd disclaims all responsibility for damage to persons or objects arising as a consequence of incorrect handling of the tool, failure to inspect the tool for damage or other faults that may influence it's operation prior to starting work, or failure to follow the safety regulations listed or applicable to the job site.

The Vibro-Lo Scabbling tool is fitted with either bush or cruciform cutter heads and is primarily designed for concrete reduction and the removal of laitance from concrete, It can also be used for the removal of heavy rust and scale.

Note: Bush Hammer style headed pistons are best suited to concrete reduction and for laitance removal; these reduce the damage caused to the aggregate using the cruciform cutter head, ensuring that a strong bond is created with the next layer.

Cruciform headed pistons are best suited for the removal of heavy rust and scale and also in the reduction of concrete where a smoother finish is required; this type of piston will reduce the aggregate as well as the concrete surface.

Air Supply

The compressed air must be free from water and dirt. The installation of a filter/regulator/lubricator air preparation set (with moisture trap) adjacent to the tool is strongly recommended.

Always clear the air hose before connection to the tool. Ensure that no moisture (condensation) is present in the air hose.

Ensure that a minimum 10mm (3/8") bore air hose is used and that all couplings are secure, leak free and in good condition.

Limit the length of air hose to 10M (33ft). Where extra length is necessary, for each additional 15M (50ft) of air hose used, the pressure drop is approximately 0.16bar (3psi).

Correct operating pressure is 6.2bar (90 psi).

Do not let the operating pressure fall below 5.5bar (80p.s.i.) or rise above 6.9bar (100 psi) absolute maximum.

The compressor must be able to supply a minimum of 9.44lps (20cfm), (Free air, not displaced as quoted by some compressor manufactures).

In particularly cold weather it is recommended that a proprietary anti-freeze lubricating oil is used.

Safety

Always, read instructions first before use.

Do wear Personal Protective Equipment including safety goggles, footwear, ear defenders and gloves. In some environments it will be necessary to wear facemasks or breathing apparatus.

Do be aware that this tool is not electrically insulated.

Do keep hands and clothing away from moving parts.

Do ensure that this tool is lubricated daily.

Do be aware that the tool can create dust and

flying debris.

Do be aware of others working around you.

Do store this tool in a secure and dry environment.

Always observe safe-working practices at all times.

Do not allow the tool to run unattended.

Do not use this tool in potentially explosive environments.

Do not drag this tool by the air hose. **Do not** use the Scaler as a lever.

Do not use petrol (gasoline), thinners or any other high flash point solvent to clean the tool.

Do not modify this tool in any way, as this will invalidate the warranty and could lead to serious injury.

Risk of Hand-arm Vibration injury

These tools may cause Hand-arm Vibration Syndrome injury if their use is not adequately managed. We advise you to carry out a risk assessment and to implement measures such as; limiting exposure time [i.e. actual trigger time, not total time at work], job rotation, ensuring the tools are used correctly, ensuring the tools are maintained according to our recommendations, and ensuring that the operators wear personal protective equipment [PPE] particularly gloves and clothing to keep them warm and dry.

Employers should consider setting up a programme of health surveillance to establish a benchmark for each operator and to detect any early symptoms of vibration injury.

We are not aware of any PPE that provides protection against vibration injury by attenuating vibration emissions.

See 'Specifications' section for vibration emission data.

Further advice is available from our Technical Department.

Recommended lubricants

Oil the tool daily before use. Put a few drops of one of the following zinc free air tool lubricants through the air

SHELL S22 or R10 CASTROL Hyspin ZZ32

Cleaning

At intervals of no more than 40 hours or if operation becomes unproductive and the piston shows signs of sticking, dismantle and clean with a highly refined paraffin.

Immediately after cleaning, thoroughly oil the tool with one of the recommended lubricants.

MAINTENANCE

Starting work

Prior to operating the tool check: -That all fittings are secure, free from leaks and air hoses are in good condition.

That the air pressure is correct for this tool 6.2 bar (90p.s.i.). Put a few drops of recommended lubricant into the air inlet of the tool.

To operate the tool, which is dependant on the type of lever fitted, for those fitted with a safety lever, first push thumb button forwards and then for both styles of lever, pull the lever towards the handle grip to start the tool, then apply the cutter heads to the surface being prepared.

To switch off, simply release the throttle lever.

Care must be taken to avoid damaging or tripping over the air hose. Maintain contact with the work surface with sufficient pressure only to keep the tool from bouncing off. Excessive pressure can prevent the tool from working to its full capacity. Handled correctly the Scaler will work quickly and efficiently.

Excessive operator pressure will not improve the tool efficiency but will cause premature tool failure and operator fatigue.

Never allow the tool to run continuously whilst not in contact with the surface being prepared.

Maintenance

Maintenance must only be carried out by a competent person.

Disconnect the tool from the air supply before carrying out any of the following operations.

Clean all debris from the exterior of the tool.

One Piece Piston & Piston Assembly removal

Hold the Body (14) using the flats provided, in a vice with the Screw Cap (20) uppermost.

Unscrew the Screw Cap (20) using a open-ended spanner. Remove the Screw Cap, Nylon Pad (17) & O'Ring (18) as an assembly. It is recommended that the Piston Cushion O'Ring (18) is replaced.

From the bottom of the Body, push up on the Cutter Head end of the piston (16) and remove the Piston.

Inspect all parts for wear, particularly the Casting bore and the bore of the Cylinder Sleeve (15) if the tool has lost power.

Check the Piston's ground diameters, and the tungsten carbide tips for wear; replace any worn components as necessary.

Note: For most applications, the expected life of the tungsten carbide cutter is approximately 100hrs.

Valve body servicing

Clamp the assembly firmly in a soft face jawed vice, using the flats provided on the Valve Body (6), with the Throttle Lever (7) upper most.

Using a 3mm diameter pin punch, remove the Throttle Lever Roll Pin (8), and then remove the Throttle Lever (7).

Rotate the tool 180 degrees in the vice to access the valve.

Using a screwdriver, unscrew the Valve Cap (1), check the Valve Cap's 'O'Ring (2), remove the Spring (3), remove the Valve Stem (4) and the Valve Seat 'O' Ring (5). Check the Valve Stem and 'O'Ring for wear.

Flexible Connector

If the Flexible Connector (13) requires replacement, return the tool to you local distributor who will arrange for a new connector to be fitted. These connectors are fitted with unique retaining clips (12) and a special machine is required to fit them. **Do not** replace with a similar hose or Jubilee type clips, this could be dangerous to the operator and will not produce the same vibration reduction characteristics.

Assembly

Before any assembly takes place, ensure all parts are clean and are coated in a thin film of recommended air tool lubricant. It is recommended that the Piston Cushion O'Ring is replaced along with any worn parts be replaced before assembly.

Valve Body assembly

Clamp the assembly firmly in a soft face jawed vice, using the flats provided on the Valve Body (6), insert new Valve Seat 'O'Ring (5) into Valve Body, followed by the Valve Stem (4), Spring (3), then the Valve Cap (1) complete with its O'Ring (2), tighten the Valve Cap with a screwdriver.

Rotate assembly 180 degrees in vice. Using a 3mm diameter pin punch locate and align the Throttle Lever (7) in position, then drive in the Throttle Lever Roll Pin (8) into the Pin location.

Piston and Casting assembly

Hold the Body using the flats provided, in a vice with the large opening uppermost.

Lubricate the Piston and Casting bores, then insert the Piston into the Casting bore.

Screw down the Screw Cap assembly (Check exploded view for correct assembly of Nylon Pad (17) and O'Ring (18) and tighten.

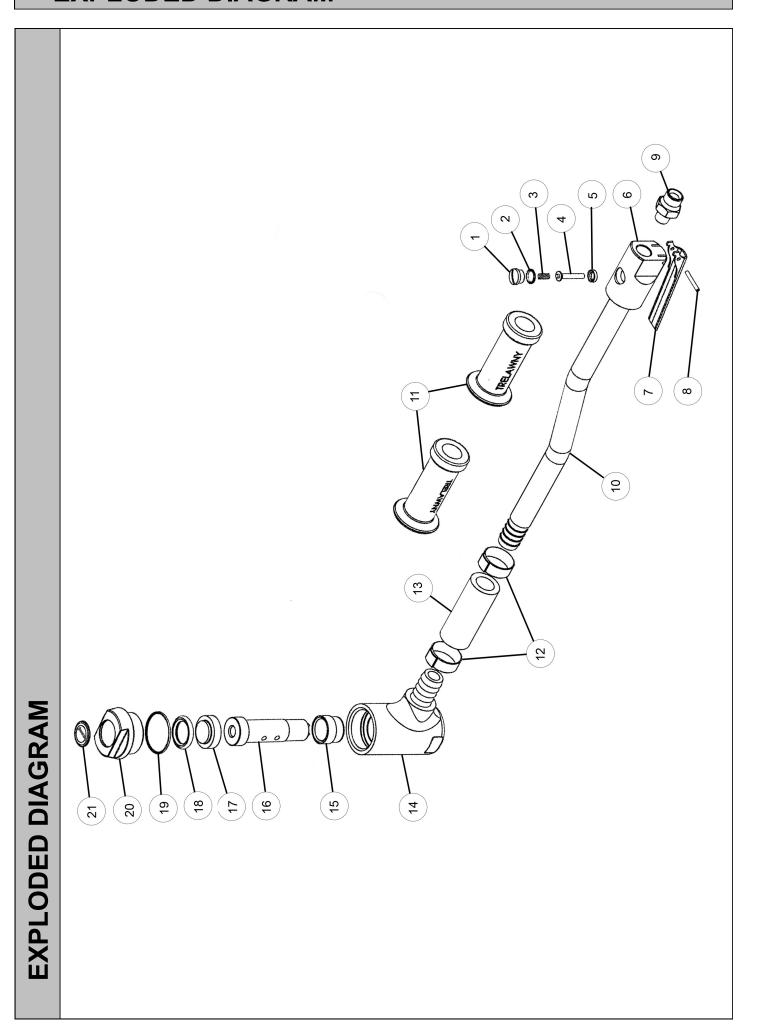
Disposal

When the tool and its accessories are taken out of service for disposal, it is recommended that: -

They are rendered unusable to prevent improper re-use.

They are dismantled into component form, segregated according to material composition and disposed of using waste recycling processes specified by local regulations.

EXPLODED DIAGRAM



PARTS LIST

S LIST	ımber Description	021 Valve Cap	139 O'Ring - (Valve Cap)	022 Valve Spring	1022 Valve Stem	139 Square O'Ring	321 Valve Body Assembly (Includes items 1 - 8)	000 Lever	108 Roll Pin	301 Adapter	350 Lo-Vib Handle	060 Grip x 2	:000 Band-it Hose Clamp x 2	380 Vibro-Lo Flexible connector	VL Scabbler Body (includes item 15)	Cylinder Sleeve	010 Bush Piston (fitted as standard)	(000 C/F Piston (Optional)	005 Nylon Pad	O'Ring - (Piston Cushion)	O'Ring - (Screw Cap)	370 Screw Cap	1003 Trelawny Badge	3/8" Bore Hose 10 Metre		3/o Bole Hose 30 Metre
LIST	er																							3/8" Bo	3/8" Bo	_
PARTS LIST	Part Number	615.3021	809.0139	712.3022	618.3022	809.0139	423.5321	716.3000	813.0108	711.5301	624.5350	717.3060	821.2000	719.1380	411.5225	613.5370	612.6010	612.6000	615.6005	809.6229	809.0299	615.5370	839.3003	*719.1000	*719.3000)
a	Item	_	7	က	4	2	9	7	∞	6	10	1	12	13	14	15	16		17	18	19	20	21			

TECHNICAL SPECIFICATIONS

	VL SINGLE SCABBLER
Piston Diameter	27.5mm (1.08")
Piston Length	87.4mm (3.44")
Piston Stroke	39.8mm (1.57)
Blows Per Minute	2800
Air Consumption	5.6 lps (12cfm)
Air Pressure	6.2 bar (90 psi)
Length	520mm (20.5")
Height	130mm (5.0")
Weight	2.85 kg (6.28 lbs)
Noise Level L _{pA} dB (A)	
L _{wA} dB (A)	98.5 dB(A)
Vibration Level - Concrete (Trigger Hand) Bush Primary	9.4 m/s ² (K= 1.13m/s ²)
Bush Secondary	14.1 m/s² (K= 2.22m/s²)
(Trigger Hand) Cruciform Primary	9.15 m/s ² (K= 2.95m/s ²)
Cruciform Secondary	13.7 m/s ² (K= 1.5m/s ²)
Vibration Level - Steel (Trigger Hand) Primary	3.9 m/s ² (K= 0.74m/s ²)
Secondary	8.36 m/s ² (K= 1.38m/s ²)

Declared vibration emission value are in accordance with BS EN 12096: 1997 (K) Equals the factor of uncertainty, which allows for variations in measurement and production. Vibration data figures are tri-axial, which gives the total vibration emission.

Risk of Hand Arm Injury

Because of various factors, the range of vibration emission during intended use of these tools is expected to be between 4.6m/s² – 22.4m/s². The vibration is dependent on the tool model, task, the operators grip, and feed force employed etc.

Noise level measured in accordance with: EN ISO 15744: 2008

Vibration measured in accordance with: BS EN ISO 28927:2012 and BS EN ISO 5349-1: 2001, BS EN ISO 5349-2: 2002

Machinery Directive Information

This machine has been designed and produced in accordance with the following directives: 2006/42/EC Machinery Directive and applicable harmonised standard: EN ISO 1 1148-4:2012

Trelawny tools are thoroughly tested under specified conditions in accordance with applicable internationally recognised standards. When a tool is used on site the conditions may not be the same as those used in our tests.

Trelawny Surface Preparation Technology operates a policy of continuous product development and refinement and therefore reserves the right to change technical specifications and product designs without giving prior notice.

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The use of non-Trelawny spare parts invalidates the warranty.







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