

# VL303EX CHISEL SCALER

## OPERATIONS AND MAINTENANCE MANUAL



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## INTRODUCTION

Your new Trelawny SPT tool will more than satisfy your expectations. It has been manufactured under stringent Trelawny SPT Quality Standards to meet superior performance criteria. You will find your new tool easy and safe to operate, and, with proper care, it will give you many years of dependable service.



### WARNING

Carefully read through these original instructions before using your new Trelawny tool. Take special care to read the warnings. Your Trelawny tool has many features that will make your job faster and easier. Safety, performance, and dependability have been given top priority in the development of this tool, making it easy to maintain and operate.



### ENVIRONMENTAL PROTECTION

The machine, accessories and packaging should be sorted for environmentally friendly recycling. The plastic components are labelled for categorised recycling.



### DISPOSAL

Waste products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.

# DECLARATION OF CONFORMITY

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We,

Trelawny SPT Limited of  
Trelawny House, 13 Highdown Road, Sydenham Industrial Estate, Leamington Spa, Warwickshire, CV31  
1XT, United Kingdom,  
Declare that under our sole responsibility for supply/manufacture of the product

Name of product Chisel Scaler  
Model VL303Ex

to which this document relates is in conformity with the provisions of the following Directive(s),  
Normative Documents and their relevant Standards:

2006/42/EC	MACHINERY DIRECTIVE
EN ISO 11148-4:2010	HAND HELD NON-ELECTRIC (Non-Rotary Percussive Tools)
EN ISO 4414:2010	General rules and safety requirements
EN ISO 4414	SAFE PNEUMATIC EQUIPMENT OF MACHINERY

Conformity with the following relevant legislation:

2014/34/EU ATEX DIRECTIVE

Based on following harmonised standards:

EN 60079-0:2018

EN ISO 80079-36:2016

EN ISO 80079-37



II 2 G Ex h IIC T4 Gb

II 2 D Ex h IIIC T135°C Db

Year and place of issue,  
2020  
Leamington Spa, England

A handwritten signature in blue ink, appearing to read "Adam Dickinson".

Adam Dickinson,  
Managing Director



DECLARATION OF CONFORMITY

CZ	Prohlášení o přizpůsobení My, společnost Trelawny SPT Limited podávamej daňové přiznání, že výrobek a dodávka výrobku název výrobku Model, výrobní číslo Rok výroby Pro které se průkaz týkající, je přizpůsobení s zásoby od následující příkazov a jejich pohotovosti: 98/37/EC Příkaz soustrojí 73/23/EC Příkaz nízkého napětí (upotřebitelné jediné do výrobku použití elektrické energie)	LT	ATITIKTIES DEKLARACIJA' Mes, Trelawny SPT Limited Prisiimdami visą atsakomybę deklaruojame, kad tiekiamas / gaminamas produktas Produkto pavadinimas Modelis, serijos numeris Pagaminimo Kuriam taikoma ši deklaracija, atitinka šių direktyvų, norminių aktų ir su jais susijusių standartų reikalavimus: 98/37/EC Įtrangos direktyva 73/23/EC Zemos įtampos direktyva (taikoma tik elektriniams įrengimams)
DE	Übereinstimmungserklärung Wir, Trelawny SPT Limited erklären, dass unter unserer alleinigen Verantwortung für die Lieferung und Herstellung des Produktes Name des Produktes Model, Seriennummer Jahr der Herstellung auf welches sich dieses Dokument bezieht, stimmt mit den Vorgaben der folgenden Direktive, normativen Dokumente und deren jeweiligen Masstabe ein: 98/37/EC Maschinenriedirektive 73/23/EC Niederspannungsriedirektive (nur zutreffend auf Produkte, die Strom benutzen)	MT	DIKJARAZZJONI TA KONFORMITA Ahna, Trelawny SPT Limited Niddikjaraw li ahna responsabbli kompletament ghal provista / manifattura tal-prodott hawn f'msemmi: Isem il-Prodott Mudell, Serial number Sena la 'produzzjoni' Dan id-dokument magħmul għal prodott insemmi hawn fuq, li huwa skond il-provizjonijiet insemmija fid-dokumenti tal-klassi tax-xogħol: 98/37/EC Machinery Directive 73/23/EC Low Voltage Directive (tapplika biss għal prodotti li jaħdmu bl-elettriku)
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 Produktionsår For hvilket dette dokument referer, at deler i overensstemmelse med bestemmelser af følgende direktiver, normative dokumenter og deres relevante standard: 98/37/EC Machinery directive 73/23/EC Low voltage directive	NL	EENVORMIGHEIDSVERKLARING Wij, Trelawny SPT Limited Verklaren dat wij de volledige verantwoordelijkheid dragen voor het leveren/fabriceren van het volgende product: Naam van het product Type, Serienummer Productiejaar 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: 98/37/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 Aasta toodangu Antud dokument tõendab toote vastavust järgmistele direktiivide(de)le, normatiividele ja nendega samaväärsetele standarditele: 98/37/EC MASINA DIREKTIIVID 73/23/EC MADALPINGE DIREKTIIVID (Kohandatakse vaid toodetele, mis kasutavad elektrivoolu)	PL	Deklaracja Zgodności My, Firma Trelawny SPT Limited. oświadczamy w naszej odpowiedzialności, że produkcja i dostawa urzcdzenia Nazwa produktu Model, numer seryjny Rok produkcji do którego ten dokument należy, jest zgodne z klauzulami następujących zarządzeń i ich istotnych standardów: 98/37/EC Zarządzenie mechaniczne 73/23/EC Zarządzenie niskiego napięcia elektrycznego (Zastosowanie tylko przy urządzeniach elektrycznych)
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 Año de producción A quién este documento se refiere, está de acuerdo con lo relacionado en la Directriz, Normativa Documentada y sus relevantes standards: 98/37/EC Directorio de Maquinaria 73/23/EC Directorio de Bajo Voltaje (Aplicable solamente a productos que funcionen con electricidad)	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 Ano de produção a que esta declaração se refere, está em conformidade com o preceituado nas Directivas e Normas Comunitárias abaixo indicadas: 98/37/EC DIRECTIVA DE MÁQUINAS 73/23/EC DIRECTIVA DE BAIXA VOLTAGEM (Aplicável apenas a produtos que utilizi am energia eléctrica)
FI	ILMOITUSVAHVISTUS Me, Trelawny SPT Limited Vahvistamme tuotteiden toimittamisesta/valmistamisesta Tuotenimi Malli, sarjanumero Valmistusvuosi Tällä todistuksella vahvistamme säädösket seuraviin ohje/ohjesiin, Yleisiin papereihin ja niihin liittyvät vaatimukset: 98/37/EC KONEISTON OHJEET 73/23/EC PIENJÄNNITTE OHJEET (tarvitaan ainoastaan tuotteille jotka käyttävät sähkövoimaa)	RU	СВИДЕТЕЛЬСТВО О СООТВЕТСТВИИ Мы, Trelawny SPT Limited Завяляем, что несем полную ответственность за поставку/производство нижеуказанной продукции Наименование изделия Модель, серийный номер Год выпуска на которую выдано настоящее Свидетельство, и которая соответствует положениям сдующей(их) директив(ы), нормативным документам и относящимся к ним стандартам: 98/37/EC ДИРЕКТИВА ПО МЕХАНИЗМАМ 73/23/EC ДИРЕКТИВА ПО НИЗКОВОЛЬТНОМУ ОЪРУДОВАНИЮ (распространяется только на изделия с электропитанием)
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GR	ΔΗΛΩΣΗ ΠΙΣΤΟΤΗΤΑΣ Η εταιρεία Trelawny Spt Limited Δηλώνει ότι έχει τη μονδική ευθύνη ως κατασκευαστρια / προμηθευτρια του παρακατω προϊόντος περιγραφη προϊόντος μοντελο, αριθμος σειράς έτος παραγωγής και στο οποίο αναφέρεται αυτή η δήλωση, είναι συμβάτο με τις προδιαγραφές που ορίζονται στις ακόλουθες Κοινοτικές Οδηγίες Ελεγκτικές Διατάξεις κι άλλες σχετικές προδιαγραφές 98/37/EC ΟΔΗΓΙΑ ΠΕΡΙ ΜΗΧΑΝΗΜΑΤΩΝ 73/23/EC ΟΔΗΓΙΑ ΠΕΡΙ ΧΑΜΗΛΗΣ ΤΑΣΗΣ (αφορά μονον προϊόντα που λειτουργουν με ηλεκτρικο ρευμα)	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 Leto proizvodnje na katere se ta dokument nanaša, proizvedeni v skladu z določili naslednjih direktiv, normativnih dokumentov in njihovih relevant- nih standardov: 98/37/EC DIREKTIVA O STROJIH 73/23/EC DIREKTIVA O STROJIH Z NIZKO VOLTAŽO (nanaša se samo na proizvode na električni pogon)
HU	MEGFELÉLŐSÉGI NYILATKOZAT Mi, A "Trelawny SPT Limited" cég Felelősségünk tudatában kijelentjük, hogy mint a termék szállítója/gyártója Termék neve Típus, Sorozatszám Gyártási év amelyre jelen dokumentum vonatkozik, megfelel az alábbi irányelv(ek), Irányadó Dokumentumok előírásainak, és az azokat meghatározó szabványoknak: 98/37/EC GÉPÉSZETI IRÁNYELVEK 73/23/EC KISFESZÜLTÉGŰ IRÁNYELVEK (Csak az elektromos meghatású gepeknél)	TR	UYGUNLUK BEYANI Trelawny SPT Limited Aşağıdaki, üretim ve tedarkinden tek ba'yna sorumlu olduđu ürünün Ürün adı Model/Seri no Üretim yılı bu belgenin ilgili olduđu aşağıdaki yönetmeliklerin, norm belgelerinin ve ilgili standartları'nın ko-bulları'na uygun olduđuunu beyan eder: 98/37/EC MAKÝNALAR YÖNETMELÝĐÝ 73/23/EC DÜĐÜK GERÝLÝM YÖNETMELÝĐÝ (Yalnızýz elektrikle çalypan ürünlerde geçerlidir)
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# DECLARATION OF CONFORMITY

## Appendix 1 - Hazardous Area Certification

The VL303Ex Chisel Scalers are certified compliant to the ATEX Directive (2014/34/EU) for safe use within a hazardous area and has been assessed so by Element Materials Technology.

This product conforms to the Standards:

EN 60079-0:2018

EN ISO 80079-36:2016

EN ISO 80079-37

And is attributed with the product certification codes:



II 2 G Ex h IIC T4 Gb

II 2 D Ex h IIC T135°C Db

With ATEX Certificate Number: EMT19ATEX0022X

## Special Conditions of Safe Use

1. Air compressors used in conjunction with the Scaling Hammers shall incorporate means to prevent the ingress of dust or other foreign material into the air supply i.e a filter on the compressor intake.
2. For air compressors used in conjunction with the Scaling Hammers, only lubricants that are resistant to carbonisation shall be used.
3. The external painted surfaces of the equipment are not to be exposed to charging mechanisms stronger than manual rubbing.
4. Air supply hoses used in conjunction with the equipment must be manufactured from anti-static material with a surface resistance no greater than  $10^9 \Omega$ .
5. Equipment is to be lubricated before as detailed in the Operations & Maintenance Manual.
6. Any lubricating oil used must have an auto ignition temperature of  $> 185^\circ\text{C}$ .
7. The equipment must not be stored in an explosive acetylene atmosphere (to prevent the formation of acetylides on the copper heads).

Equipment must only be installed & maintained by suitably qualified and competent personnel in accordance with the instructions provided and the terms of the applicable product services.

## FOREWORD

Thank you for your purchase of the VL303EX Chisel Scaler. This manual contains the necessary maintenance information for you to ensure proper operation and care for this machine. It is essential for you to read through this manual thoroughly. In the unlikely event that you experience problems with your

VL303EX Chisel Scaler, please do not hesitate to contact your local Trelawny dealer or agent. We always welcome feedback and comments from our valued customers.

## GENERAL INFORMATION

Before operating, performing maintenance or repairing the VL303Ex Chisel Scalers, this manual must be read and understood. 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. Operators should be familiar with the data given in the specification section. Please keep these instructions in a safe and accessible place.

Trelawny SPT Limited 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 the operation prior to starting work, or failure to follow the safety regulations listed or applicable to the job site. The tool is primarily designed for the removal of paint, rust, scale, and for the removal of laitance from concrete, it can be used both indoors and out. This tool must not be used in a fixture.



**WARNING!** Before operating, performing maintenance or repairing the VL303Ex this manual must be read and understood. If in any doubt, ask your supervisor before using this equipment.

## SAFETY

### Do:

- Be aware that this tool is not electrically insulated.
- Be aware that the tool can create dust and flying debris.
- Keep hands and clothing away from moving parts.
- Be aware of others working around you.
- Ensure that this tool is lubricated daily.
- Store this tool in a secure and dry environment.
- 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.
- Always observe safe-working practices at all times.

### Do not:

- Allow the tool to run unattended.
- Use the scaler as a lever.
- Modify this tool in any way, this will invalidate the warranty and could also lead to serious injury.
- Use wire or any other fixing to lock the throttle lever in the on/open position.
- Drag the tool by the air hose.
- Use petrol (gasoline), thinners or any other high flash point solvent to clean the tool.
- Use the tool if you become tired, this can lead to physical strain or injuries; where practical; use a spring balance, balance weights or similar equipment to take the weight of the tool.

- Hold the exposed chisel, whilst the tool is in use, this could cause vibration damage to the hands.

Please note: Unrestrained hoses can whip if they become detached. Care must be taken to avoid damaging or tripping over the trailing air hose.



**WARNING!** Always observe safe-working practices at all times.

# 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. 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.**

**We strongly advise you to visit the Health & Safety Executive website** <http://www.hse.gov.uk/vibration>

This site provides excellent advice and information on HAV and currently, includes a Hand-arm Vibration Exposure Calculator that is easy to use to work out the daily vibration exposure for each of your operators.

## 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.

In particularly cold temperatures it is recommended that a proprietary anti-freeze lubricating oil is used. Always clear the air hose before connection to the tool. Ensure that no moisture (condensation) is present in the air hose. Ensure that only 10mm (3/8") bore antistatic air hose is used and that all couplings are secure, leak free and in good condition.

For maximum efficiency, 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). The correct air pressure for this machine is to 6.2bar (90psi).

Do not let the operating pressure fall below 5.5bar (80psi) or rise above 6.9bar (100psi) absolute maximum. The compressor should be able to supply a minimum of 3.77 L/s (8cfm) of free air not displaced as quoted by some compressor manufactures, this will give 3cfm of headroom, so that the compressor isn't continually running.

NOTE: If this tool stops working, it is most likely that the plastic (17) ball has worn excessively and may have passed into the cylinder, check the cylinder exhaust holes for the remnant also. This is designed to run for approximately 160hrs before requiring replacement.

## STARTING WORK

Please note we recommend using a lanyard or strap attached to the optional Drop Protection fall arrestor (39). This should be attached to a belt or harness, but preferably to a fixed and secure mounting point.

Always use Trelawny Aluminium Bronze Chisels.

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 (90 p.s.i.). Put a few drops of a recommended lubricant into the air inlet of the tool.

Safe use of this tool requires a solid stance and secure foothold, the tool may be used in other postures but care must be taken that the operator adopts a firm and stable position. Maintain contact with the work surface with sufficient pressure only to keep the tool from bouncing.

Excessive pressure can prevent the tool from working to its full capacity.

Handled correctly the VL303Ex Chisel Scaler will work quickly and efficiently. Excessive operator pressure will not improve the tool efficiency but could cause premature tool failure and operator fatigue.

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

To operate the tool, pull the throttle lever (7) towards the handle and then apply the chisel to the surface to be worked.

To switch off, simply release the throttle lever. Gloves and personal protective equipment must be worn when using this tool.



**WARNING! VERY IMPORTANT**  
Only Trelawny Aluminium Bronze Chisels must be used in this tool.  
DO NOT substitute with any other Chisel.



## MAINTENANCE

Maintenance must only be carried out by a competent person, in a suitably equipped workshop. Disconnect the tool from the air supply before carrying out any of the following operations.

Clean all debris from the exterior of the tool.

This tool has been designed so that you only require a vice, screwdriver, 3mm pin punch, 6mm allen key and light hammer, no other specialist tools are required to completely strip and service the tool.

For safe efficient running and at intervals of no more than 120 hours, dismantle and clean with highly refined paraffin.

Check all components for wear, replace the 6mm Ball (Item 17) and all O'Rings. Immediately after cleaning, thoroughly oil the tool with one of the recommended lubricants.

### Recommended lubricants

Oil the tool daily during use. Put a few drops of one of the following bio-degradable air tool lubricants through the air inlet.

SHELL Naturelle HF

CASTROL Carelube HTG 22

Always use clean oil from a sealed container and ensure ignition temperature is above 185deg C.

### Tool Dismantling

Before carrying out any dismantling, ensure the air supply is turned off and remove the air-line from the tool. Clean all deposits from the outside of the tool. Service kits are available, see parts section.

### Chisel Holder removal

Hold the Cover in a vice using the flats provided, keeping the Chisel holder (37) vertical. Loosen Pinch bolt & Unscrew Anti Clockwise by hand, remove the Chisel holder (37) complete with the Spring (32) as an assembly.

### Piston and Cylinder removal

Hold the Cover in a vice using the flats provided, keeping the Chisel holder (37) vertical. Loosen Pinch bolt & Unscrew Anti Clockwise by hand, remove the Chisel holder (37) complete with the Spring (32) as an assembly.

Note: When removing tool from vice, do not point the front of the tool downward; the piston may fall out of the Intermediate Tube causing damage.

Hold a clean lint free cloth over the open end of the Intermediate Tube, remove from vice and tilt the Tube downwards to remove the Piston (26). Secure the Cover (10) in a vice with the Intermediate Tube in the vertical position, using the flats provided.

Use a suitable 6mm bar through the holes provided, unscrew the Intermediate Tube (22) anticlockwise. Carefully remove the Intermediate Tube from the cover and remove the Cylinder from its location hole in the Cylinder Guide Plate, which is fitted in the cover.

The Cylinder Guide Plate (12) can be pulled out of the cover to gain access to the Guide Plate Seal (13).

### Cylinder Ball Valve replacement

This is a consumable item and will require replacing after approximately 120 -160 hours use; this is dependant on the cleanliness of the air supply and frequency of lubrication. Do not replace this plastic ball with a steel version, as it will damage the cylinder valve seat and piston valve pin. The ATEX certification will also become invalid.

Remove the ball retaining O'Ring (18) from its groove just inside the bore of the stem using a suitable pointed implement. Remove the ball from the bore or if it has worn excessively and may have passed into the cylinder, check the cylinder exhaust holes for the remnant also. Replace and refit new O'Ring into groove.

### Piston Valve Pin replacement

Hold the piston in a vice by the stem, using a pair of cutters remove the top of the Valve Pin (28), using a drill & 6mm drill bit and remove the remainder from the piston. A small socket (4mm) which just fits over the actual pin, will stop damage occurring. Drive the valve pin in up to its shoulder using a vice or a small hammer.

### Valve Body - Valve Stem removal

Hold the Valve Body (6) in a vice using the flats provided. Using a 3 mm diameter punch, drive the Throttle Lever retaining Spring Pin (8) out of the Valve Body (6) and withdraw the Throttle Lever (7). Remove the Valve Cap with O'Ring (2), Valve Spring (3), Valve Stem (4) and the Valve Seat O'Ring (5).

### Valve Body removal

Remove the Chisel holder and Anvil and Return Spring as per instructions. Replace the Chisel holder, onto the Intermediate Tube and screw up until hand tight. Hold the Valve Body flats securely in a vice, with the Cover (10) uppermost. Turn the tool anti-clockwise around the Valve Body by holding the Cover and Chisel holder, unscrew the Valve Body from the handle until loose, remove from vice and finally unscrew by hand.



**VERY IMPORTANT** Before carrying out any dismantling, ensuring the air supply is turned off,



# ASSEMBLY

Ensure all parts are clean and internal parts have a film of recommended lubricant. Replace any parts that show signs of wear. If the tool is being fully serviced, it is strongly recommended to change all O'Rings (2), (5), (14), (18), (25), (27), cushion ring (19), seals (13,) (29), ball valve (17).

## Valve assembly

Replacement of the Valve Body onto the Cover assembly is the reverse of removal. Use a few turns of P.T.F.E. tape on the threads of the handle and screw on the Valve Body initially by hand, then insert the Valve Body in a vice, holding securely on the flats provided, and with the Cover (10) uppermost. Finally tighten up clockwise by hand, holding the Chisel holder and Cover, and align the Throttle Lever with the front of the tool when resistance is felt. Replace the O'Ring (2) on the Valve Cap (1). Fit a new Valve seat O'Ring (5) in the Valve Body (6). Insert the Valve Stem (4), in the Valve Body (6). Place the Valve Spring (3) on top of the Valve Stem (4), screw down the Valve Cap (1) by hand, and then fasten until fully tight with a flat blade screwdriver. Locate Throttle Lever (7) in the Valve Body (6) using a 3 mm punch to align holes. Secure by inserting Spring Pin (8).

## Tool assembly

Ensure that all components are clean and lubricated with a thin film of the recommended lubricating oil. Assembly is the reverse of dismantling. Secure the Cover (10) vertically in a vice using the flats provided, insert the Cylinder Guide Plate ensuring that the flat face is uppermost, ensure that it is located onto the shoulder at the bottom of the threaded section inside the Cover. Fit the Cylinder stem into the bore of the Cylinder Guide Plate. With the removal holes uppermost carefully slide the Intermediate Tube over the

Cylinder, screwing down by hand. Finally tighten by using a 6mm bar x 200mm through the holes provided. (Do not over tighten). Gently insert the Piston, small diameter first into the Intermediate Tube, if resistance is felt, turn the piston slightly until it is located in the cylinder.

Note: When removing tool from vice, do not point the front of the tool downward; the piston will fall out of the tube and become damaged. Remove the tool from the vice and follow as per fitting the Chisel holder, hold the tool horizontal when completing this operation.

## Fitting of Chisel Holder

The Chisel Holder assembly comprises of an Anvil, Spring, Chisel Holder and the Chisel. To fit the Chisel Holder, first fit the spring onto the Anvil locating against the large shoulder. Fit this assembly into the intermediate tube and locate the large flat face of the Anvil against the front face of the piston. Ensure that the pinch bolt on the Chisel Holder is loose and screw the Chisel Holder fully on to the intermediate tube. Then unscrew slightly to position the boss underneath the tool and tighten the pinch bolt using a 6mm AF Allen key. Turn the knurled collar on the Chisel Holder until the retaining ball is fully visible; insert the Chisel aligning the rebate with the ball. Position the middle of the rebate on the shank of the Chisel with the retaining ball and turn the collar half a turn to lock the Chisel in place. To release the Chisel, rotate the knurled collar until the retaining ball is fully visible and remove the Chisel.



**WARNING!** Maintenance must only be carried out by a competent person, in a suitably equipped workshop. Disconnect the tool from the air supply before carrying out any of the following operations.

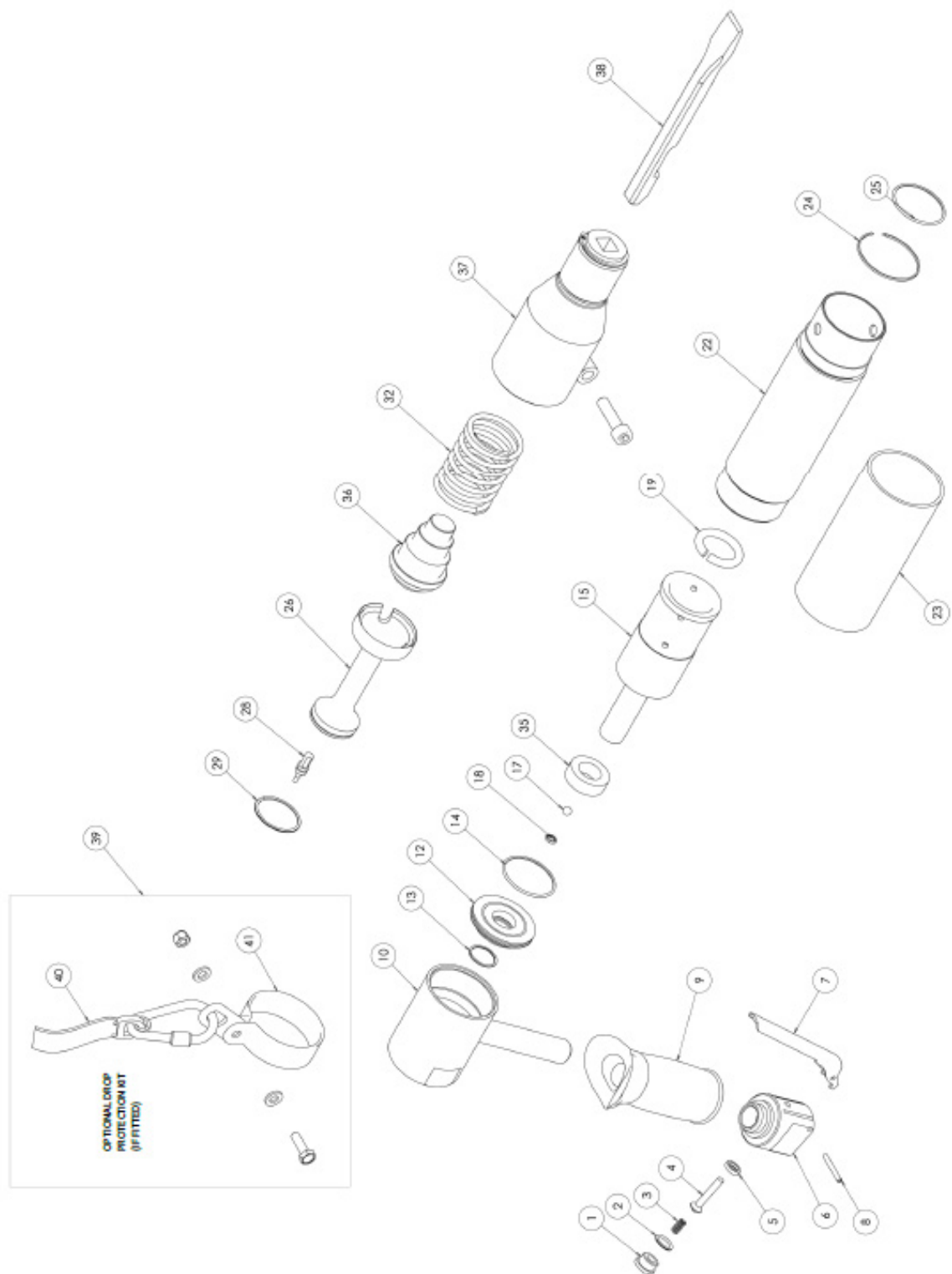
# DISPOSAL

Dismantle into component form, segregate according to material composition and dispose of using waste recycling processes specified by local regulations.



**VERY IMPORTANT**  
Only Trelawny Aluminium Bronze Chisel must be used in this tool.  
**DO NOT** substitute with any other chisel.

# EXPLODED DIAGRAM



# PARTS LIST

Item NO.	PART NO.	DESCRIPTION
1	615.3021	Valve Cap
2	809.0139	Valve Cap O'Ring
3	712.3022	Valve Spring
4	618.3022	Valve Stem
5	809.0089	Valve Seat O'Ring
6	423.3021	Valve Body Assembly BSP Thread (inc items 1-8)
7	716.3000	Throttle Lever
8	813.0108	Roll Pin
9	717.3050	Rubber Handle Grip
10	425.3003	Cover Assembly (Pistol Grip)
12	652.3003	Guide Plate
13	829.3003	Guide Plate Seal
14	809.0299	Guide Plate O'Ring
15	428.3003	Cylinder
17	816.3005	Plastic Ball 6mm diameter
18	809.0080	Ball Retaining O'Ring
19	809.3004	Piston Cushion
22	622.3031	Intermediate Tube
23	721.3003	Intermediate Tube Outer Sleeve
24	814.3003	Circlip
25	809.0299	Front Tube Locking O'Ring
26	612.3003	Piston
28	636.3003	Valve Pin
29	829.3002	Piston Ring
32	712.3003	Front Spring
33	620.3003	Front Tube Insert
34	622.3030	Front Tube
35	729.3003	Cylinder Stem Reaction Ring
36	610.3003	Anvil
37	419.3003	Chisel Holder 1/2" square shank
38	704.3110	Chisel 1/2" Sq Shank Spark Resistant 2" Blade
39	512.3003	VL303 Drop Protection Kit Includes (40,41):
40	415.3003	Anti Static Lanyard
41	720.3003	VL303 Arrester Clamp Assembly
	819.2375	Connector 1/4" BSPT-3/8" Stem
	843.0825	1/4" BSP to NPT Connector
	446.3303X	Service Kit (2,3,4,7,8,13,14,17,18,19,25,28,32)

# TECHNICAL SPECIFICATION

Trouble Shooting	Cause	Action
Poor performance or lack of power.	Low air pressure.	Ensure that the air pressure is correct at 90psi, max 100psi.
	If tool has been left for some time without use, the oil may dry out slightly, causing a sticky residue.	Strip tool down, clean and re-oil.
	Piston seal worn.	Remove seal from piston and fit into bore of cylinder. If it drops to the bottom of the bore, a replacement is required.
	Incorrect chisel fitted.	Ensure that the chisel is for a vibration reduced tool.
	Valve pin broken.	Replace valve pin and 6mm plastic ball.
Tool continues to run with trigger released.	Valve seal may have become dislodged through the tool being disconnected with the trigger in the open position.	Ensure that the trigger has not been taped or wired in the open position, reposition or replace valve seat o'ring.
High vibration.	High air pressure.	Ensure that the air pressure is correct at 90psi, max 100psi.
	Lack of lubrication.	Lubricate with the recommended air tool oil daily.
	Low air pressure 70-80psi can also cause high vibration.	Ensure that the air pressure is correct at 90psi, max 100psi.
	Front return spring weak or broken.	Replace return spring.
	Guide plate seal worn.	Replace guide plate seal.
	Piston cushion failed. (This is a split o'ring)	Replace with a new piston cushion.
Tool stopped working.	6mm plastic ball worn out.	Check for and remove the remains of the ball, possibly in an exhaust hole of cylinder and renew 6mm plastic ball.
	Valve pin broken.	Replace valve pin and 6mm plastic ball.

Model	Piston Diameter	Piston Stroke (approximate)	BPM	Air Consumption @ 6.2bar	Overall Length	Weight	Noise LwA (Power Level)	Vibration (AEO) Primary	Vibration (AEO) Secondary
VL303Ex Pistol Grip Chisel	34.4mm (1.35")	20mm (.787")	3000	2.6lps (5.5cfm)	300mm (11.8")	4.25kg (9.36lbs)	78.2 db(A)	3.7 m/s <sup>2</sup> (k = +1.48)	4.3 m/s <sup>2</sup> (k = +1.72)

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

Vibration Levels: Vibration measured in accordance with: EN ISO 28927-9:2012 and EN ISO 20643:2005. (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. Because of various factors, the range of vibration from these tools may vary between -0% +40% (3.7 m/s<sup>2</sup> -6.02 m/s<sup>2</sup>). The vibration is dependent on the task, the operators grip and feed force employed etc.

NOTE: The above vibration levels were obtained from tri-axial measurements to comply with the requirements of "The Control of Vibration at Work Regulations 2005" and the revisions to the (8662) now EN ISO 28927-9:2012 and EN ISO 20643:2005 series of standards. These values are at least 1.4 times larger than the values obtained from single axis measurements. \*Based on European Union Council Directive 2002/44/EC (Physical Agents (Vibration) Directive)).

#### Machinery Directive Information:

This tool has been designed and produced in accordance with the following directives: and applicable harmonised standard:

2006/42/EC Machinery Directive  
EN ISO 1 1148-4:2012  
EN ISO 11148-4: 2010 Hand Held Non-Electric (Non-Rotary)

#### Percussive Tools)

This tool conforms with the following EC legislation:  
Based on the following harmonised standards:

ATEX DIRECTIVE 2014/34/EU  
EN60079-0:2018  
EN ISO 80079-36:2016  
EN ISO 80079-37

#### Notified Body:

Certificate Number:

Element Material Technology LTD  
EMT19ATEX0022X

If your company has any problem with our products or would like to discuss the possibility of an improvement being made to them, then please do not hesitate to contact us. Your comments are both important and appreciated.

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 will invalidate the ATEX certification and also the warranty.**

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## NOTES

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## NOTES

[illegible]



## PART NUMBER INFORMATION

Part number 196.3017  
VL303Ex Chisel scaler

ATEX Certified Needle Scalers are also available

Part number 196.2107 VL223Ex Needle Scaler  
Part number 196.2207 VL203Ex Needle Scaler  
Part number 196.3007 VL303Ex Needle Scaler

## DEALER STAMP:

## NEED TO CONTACT US?

### Trelawny SPT Limited

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Leamington Spa, Warwickshire, CV31 1XT, United Kingdom

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**Email:** sales@trelawny.co.uk

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**Manual Part Number:**  
**735.3607**

