

TRIDENT NEPTUNE

OPERATION & MAINTENANCE MANUAL



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INTRODUCTION

Thank you for choosing a product by Trelawny SPT Ltd, an innovative leading brand in the Surface Preparation sector.

This product has been manufactured under stringent quality standards to meet superior performance criteria. This manual contains the necessary maintenance information for you to ensure proper operation and care for this equipment.

In the unlikely event that you experience a problem please do not hesitate to contact your local Trelawny dealer or agent. We always welcome feedback and comments from our valued customers.



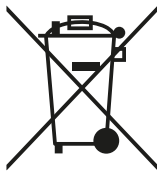
WARNING:

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



ENVIRONMENTAL PROTECTION:

The equipment, 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.



GENERAL INFORMATION

Before operating any TRELAWNY equipment, this manual must be read and understood by the operator, if in any doubt ask your supervisor before using this equipment. Failure to follow these instructions could result in damage to the equipment 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 equipment, failure to inspect the equipment

prior to starting work for damage or other faults that may influence the operation of safe working of the equipment, or failure to follow the safety regulations listed or applicable to the job site.

Operators should be familiar with the data given in the specification section. Please keep these instructions in a safe and accessible place.

EU DECLARATION OF CONFORMITY



EU Declaration of Conformity

We, **Trelawny SPT Ltd of 13 Highdown Road, Sydenham Industrial Estate, Leamington Spa, Warwickshire, CV31 1XT, GB** declare that the DoC is issued under our sole responsibility and belongs to the following product:

PART NUMBER

DESCRIPTION

SERIAL NUMBER

YEAR OF CONSTRUCTION

A large dashed rectangular box intended for the manufacturer to provide details about the product, such as part number, description, serial number, and year of construction.

The object of the declaration described above is in conformity with the relevant **Union Harmonisation Legislation**:

- | | |
|--------------|---|
| - 2006/42/EC | Machinery Directive |
| - 2014/30/EU | EMC Directive |
| - 2014/35/EU | Low Voltage Directive |
| - 2011/65/EU | Restriction of Hazardous Substances Directive |

The following harmonised standards and technical specifications have been applied:

- | | |
|---------------------|---|
| - EN ISO 12100:2010 | Safety of machinery |
| - EN 60204-1:2018 | Safety of machinery. Electrical equipment of machines - General requirements |
| - EN ISO 4871:2009 | Acoustics. Declaration and verification of noise emission values of machinery and equipment |

Technical files are held by Indutrade Benelux BV, Anton Philipsweg 1, 1422 AL Uithoorn, Netherlands

Notified Body:

Not Applicable. Machinery is not listed under ANNEX IV of the Machinery Directive.

Place of Declaration:

Trelawny SPT Ltd, 13 Highdown Road, Sydenham Industrial Estate, Leamington Spa, Warwickshire, CV31 1XT, GB

Date of Declaration:

December 2024

Signed by:

A handwritten signature in black ink, appearing to read 'Daniel Rowledge'.

Daniel Rowledge
Managing Director

UKCA DECLARATION OF CONFORMITY



UK CA

UKCA Declaration of Conformity

We, **Trelawny SPT Ltd of 13 Highdown Road, Sydenham Industrial Estate, Leamington Spa, Warwickshire, CV31 1XT, GB** declare that the DoC is issued under our sole responsibility and belongs to the following product:

PART NUMBER

DESCRIPTION

SERIAL NUMBER

YEAR OF CONSTRUCTION



The object of the declaration described above is in conformity with the relevant **Statutory Requirements**:

- | | |
|------------------------|--|
| - 2008 No. 1597 | Supply of Machinery (Safety) Regulations 2008 |
| - 2016 No. 1091 | Electromagnetic Compatibility Regulations 2016 |
| - 2016 No. 1101 | The Electrical Equipment (Safety) Regulations 2016 |
| - 2012 No. 3032 | The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 |

The following designated standards and technical specifications have been applied:

- | | |
|-------------------------------|---|
| - BS EN ISO 12100:2010 | Safety of machinery |
| - BS EN 60204-1:2018 | Safety of machinery. Electrical equipment of machines - General requirements |
| - BS EN ISO 4871:2009 | Acoustics. Declaration and verification of noise emission values of machinery and equipment |

Technical files are held by **Daniel Rowledge** at the Trelawny address stated above.

Approved Body:

Not Applicable. Machinery is not listed under ANNEX IV of the Supply of Machinery (Safety) Regulations 2008

Place of Declaration:

Trelawny SPT Ltd, 13 Highdown Road, Sydenham Industrial Estate, Leamington Spa, Warwickshire, CV31 1XT, GB

Date of Declaration:

December 2024

Signed by:



Daniel Rowledge
Managing Director

DECLARATION OF CONFORMITY

CZ	Prohlášení o přizpůsobení My, společnost Trelawny SPT Limited podávamey daňové příznání, 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: 2006/42/EC Příkaz soustrojí 2014/35/EC Příkaz nízkého napětí (upotřebitelné jediné do výrobku použít elektrické energie)	LT	ATITIKTIES DEKLARACIJA Mes, Trelawny SPT Limite 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: 2006/42/EC Įrangos direktyva 2014/35/EC Žemos 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: 2006/42/EC Maschinieriedirektive 2014/35/EC Niederspannungsrichtlinie (nur zutreffend auf Produkte, die Strom benutzen)	MT	DIKJARAZZJONI TA KONFORMITA Ahna, Trelawny SPT Limited Niddikjaraw li ahna responsabbli kompletament għal provista / manifattura tal-prodott hawn 1msemmi: Isem il-Prodott Muđelli, Serial number Sena la 'produzzjoni Dan id-dokument magħmul għal prodott imsemmi hawn fuq, li huwa skond il-provizjonijiet imsemmija fid-dokumenti tal-klassi tax-xogħol: 2006/42/EC Machinery Directive 2014/35/EC Low Voltage Directive (tapplika biss għal prodotti li jahdmu 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 deier i overensstemmelse med bestemmelser af følgende direktiver, normative dokumenter og deres relevante standard: 2006/42/EC Machinery directive 2014/35/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: 2006/42/EC MACHINERIECHTLIJN 2014/35/EC 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 tootangu Antud dokument tõendab toote vastavust järgmistele direktiividele, normatiivaktidele ja nendega samaväärsetele standarditele: 2006/42/EC MASINA DIREKTIIVID 2014/35/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 urzctdzienia Nazwa produktu Model, numer seryjny Rok produkcji do którego ten dokument należy, jest zgodne z klauzulami następujących zarządzeń i ich istotnych standardów: 2006/42/EC Zarządzenie mechaniczne 2014/35/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 quien 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 2014/35/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: 2006/42/EC DIRECTIVA DE MÁQUINAS 2014/35/EC DIRECTIVA DE BAIXA VOLTAGEM (Aplicável apenas a produtos que utilizi am energia eléctrica)
FI	ILMOITUSVAHVISTUS Me, Trelawny SPT Limited Vahvistamme tuotteen toimittamisesta/valmistamisesta Tutettiin Malli, sarjanumero Valmistusvuosi Tällä todistuksella vahvistamme saadokset seuraavin ohje/ohjeisin, Yleisin papereihin ja niihin liittyvät vaatimukset: 2006/42/EC KONEISTON OHJEET 2014/35/EC PIENJÄNNITTE OHJEET (tarvitaan ainoastaan tuotteille jotka käyttävät sähkövoimaa)	RU	СВИДЕТЕЛЬСТВО О СООТВЕТСТВИИ Мы, Trelawny SPT Limited Заявляем, 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 следующей(их) директив(ы), нормативным документам и относящимся к ним стандартам: 2006/42/EC ДИРЕКТИВА ПО МЕХАНИЗМАМ 2014/35/EC ДИРЕКТИВА ПО НИЗКОВОЛЬТНОМУ ОБЪОДУОВАНИЮ (распространяется только на изделия с электропитанием)
FR	DÉCLARATION DE CONFORMITÉ Nous, soussignés Trelawny SPT Limited déclarons que le produit sous-nommé Nom du produit Modèle et Numéro de Série Année de production et pour lequel nous prenons entière responsabilité pour sa fourniture et manufacture, est conforme aux clauses des directives suivantes documents nominatifs et normes qui s'y appliquent: 2006/42/EC DIRECTIVE POUR LA MACHINERIE 2014/35/EC DIRECTIVE POUR BAS VOLTAGE (n'est applicable qu'aux produits utilisant l'énergie électrique)	SE	FÖRSÄKRAN OM ÖVERENSSTÄMMELSE VI, TRELAWNY SPT LIMITED FÖRKLARAR ATT VI MED ENSAMT ANSVAR ANSKAFFAT / TILLVERKAT PRODUKTEN PRODUKTNAMN MODELL och SERIE NUMMER Tillverkningsår TILL VILKEN DETTA DOKUMENT HÄNVISAR ÄR I ÖVERENSSTÄMMELSE MED FÖLJANDE DIREKTIV, NORMATIVA DOKUMENT OCH DERAS RELEVANTA STANDARDER 2006/42/EC MASKINDIREKTIV 2014/35/EC LÅGSTRÖMSDIREKTIV (TILLÄMPLIG PÅ ELEKTRISK DRIVNA PRODUKTER)
GR	ΔΗΛΩΣΗ ΠΙΣΤΟΤΗΤΑΣ Η εταιρεία Trelawny Spt Limited Δηλώνει ότι έχει τη μονδική ευθύνη ως κατασκευαστρια / προμηθευτρια του παρακάτω προϊόντος περιγραφή προϊόντος μοντέλο, αριθμός σειράς έτος παραγωγής και στο οποίο αναφέρεται αυτή η δήλωση, είναι συμβατό με τις προδιαγραφές που ορίζονται στις ακόλουθες Κοινοτικές Οδηγίες Ελεγκτικές Διατάξεις κι άλλες σχετικές προδιαγραφές 2006/42/EC ΟΔΗΓΙΑ ΠΕΡΙ ΜΗΧΑΝΗΜΑΤΩΝ 2014/35/EC ΟΔΗΓΙΑ ΠΕΡΙ ΧΑΜΗΛΗΣ ΤΑΣΗΣ (αφορά μόνον προϊόντα που λειτουργούν με ηλεκτρικό ρεύμα)	SI	IZJAVA O SKLADNOSTI Trelawny SPT Limited pod polno odgovornostjo izjavljamo, da so spodaj navedeni proizvodi, ki jih dobavljamo/izvajamo: Ime proizvoda Model, serijska številka Leto proizvodnje 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 2014/35/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: 2006/42/EC GÉPÉSZETI IRÁNYELVEK 2014/35/EC KISFESZÜLTÉSÉGÜ IRÁNYELVEK (Csak az elektromos meghajtású gépeknél)	TR	UYGUNLUK BEYANI Trelawny SPT Limited Aşağıdaki, üretim ve tedarikinden tek başına sorumlu olduđu ürünün Ürün adı Model/Seri no Üretim yılı bu belgenin ilgili olduđu aşağıdaki yönetmeliklerin, norm belgelerinin ve ilgili standartları/nın koşullarına uygun olduđunu beyan eder: 2006/42/EC MAKÝNALAR YÖNETMELÝĐÝ 2014/35/EC DÜŞÜK GERÝLÝM YÖNETMELÝĐÝ (Yalnız elektrik ile çalıştırılan ürünlerde geçerlidir)
IT	DICHIARAZIONE DI CONFORMITA La Società Trelawny SPT Limited Dichiara, sotto la propria responsabilità, che la fornitura / produzione del prodotto Nome prodotto Modello, codice Anno di produzione 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 2014/35/EC DIRETTIVA SUL BASSO VOLTAGGIO (applicabile esclusivamente per prodotti che utilizzano energia elettrica)		

SAFETY

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.
- Be aware that this equipment can create dust and flying debris.
- Keep hands, feet and clothing away from moving parts.
- Follow the prestart checks detailed in this manual.
- Ensure that the workplace is well ventilated.
- Be aware of others working around you.
- Always follow safe-working practices.
- Inspect the equipment prior to using.
- Store this equipment in a secure and dry environment.

DO NOT:

- Modify this equipment in any way. This will invalidate the warranty and could lead to serious injury.
- Allow the equipment to run unattended.
- Use petrol (gasoline), thinners or any other high flash point solvent to clean the equipment.
- Disassemble or repair unless Trelawny trained.
- Permanently fix the operating lever or button in the on/run position.

HAND ARM VIBRATION

Trelawny Equipment 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 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.

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.

WARRANTY

When you choose TRELAWNY, you're investing in a product engineered for strength, durability, and unwavering reliability. Our equipment is built to endure the toughest challenges, showcasing nearly 80 years of craftsmanship in Surface Preparation Technology. We take pride in being the industry benchmark, offering not just a tool but a lasting companion for tough jobs, backed by a 12-month warranty for peace of mind.

Register your TRELAWNY product within 30 days of purchase by scanning the QR code to activate your warranty and enjoy the full support from our team.

PLEASE RETAIN YOUR PROOF OF PURCHASE, AS IT WILL BE REQUIRED TO PROCESS ANY WARRANTY CLAIMS.

The following are not covered under the Trelawny warranty:

- Damage caused by abuse, misuse, dropping or other similar damage caused by or as a result of failure to follow assembly, operation or user maintenance instructions.
- Alterations, additions or repairs carried out by persons other than Trelawny or their recognised agents.

- Transportation costs to and from Trelawny or their recognised agents, for repair or assessment against a warranty claim, on any equipment.
- Materials and/or labour costs to renew, repair or replace components due to fair wear and tear.

In no case whatsoever shall the Customer be entitled to claim damages, in particular but not be limited, loss of profit and other direct or indirect or consequential damage. This exclusion of liability, however, does not apply to unlawful intent or gross negligence on our part, but does apply to unlawful intent or gross negligence of persons employed or appointed by us to perform any of his obligations.



All warranty claims should firstly be directed to Trelawny SPT Ltd. Please provide, part number, serial number and proof of purchase, either by telephone or E-mail.

Tel: +44 (0)1926 883781

Email : warranty@trelawny.com

PRE START CHECKS (DAILY)

PNEUMATIC PRODUCTS

- The compressed air must be free from water and dirt. Always clear the air hose before connecting to the tool.
- Ensure that no moisture is present in the air hose.
- Ensure air hose and all couplings are secure, leak free and in good condition.
- Limit the length of air hose to 30M (100ft). Where extra length is necessary, for each additional 15M (50ft) of air hose used, the pressure drop is approximately 0.21bar (3psi).
- For safe and efficient operation, the correct operating pressure is 6.2bar (90 psi).
- Do not let the operating pressure fall below 5.5bar (80psi) or rise above 6.9bar (100 psi).
- In particularly cold weather it is recommended that a proprietary anti-freeze lubricating oil is used.
- The air motor requires a minimum of 70cfm of free air.

ELECTRIC PRODUCTS

- Check that the power supply on site is suitable for the equipment.
- Ensure all extension cables are fully uncoiled and never left wrapped around cable reels or tied in loops.
- Check all cable connections are secure and not damaged.
- Read the 'Power supply' section for specific cable and power configurations.

GENERIC CHECKS

- Check all bolts and screws for tightness. Ensure all fittings are secure.
- Check condition of the cutter drum assembly and replace components as required.

ELECTRIC POWER SUPPLY

ALL ELECTRIC MODELS

The Trident Neptune unit is fully tested and has been calibrated and set according to the manufactures specifications. In the event of malfunction on a new machine, the owner should first check that the power supply on site is suitable and adequate. All cables should be fully uncoiled and never left wrapped around cable reels or tied in loops.

230v MODELS

Take particular care when using 230v Machines, ensure that the electrical supply is earthed and that breakers and fuses are correct for the loading. The 230v motor requires the minimum of a 13amp, 220v power supply. Always use the shortest possible length of extension cable.

To avoid Voltage drop Trelawny recommends a maximum cable length of 30m with a core wire size of 2.5mm² cross sectional area.

110v MODELS

A minimum of 16amp industrial plug should be used. Always use the shortest possible length of extension cable. Use a centre tap transformer with a continuous rated output of at least 1.5va. In practice this means that a 3.0kva transformer will be required. Be aware that manufacturers have different methods of rating their equipment. The 230v supply to the 110v transformers ideally should be rated to at least 13amp if supply problems are to be avoided.

To avoid Voltage drop Trelawny recommends a maximum cable length of 30m with a core wire size of 2.5mm² cross sectional area.

STARTING WORK

ALL MODELS

Align D' shaped connector on the flexible drive with that on the motor unit and push home. Secure the flexible drive with the brass locking collar, tighten by hand. Select the appropriate scaling head for the application and screw into the flexible drive, initially by hand and then fasten securely using the supplied 24mm spanners. Fit the hand guard onto the end of the dumbbell handle and secure with the two nuts & bolts and finally tighten using the two supplied spanners.

ALL ELECTRIC MODELS

Inspect the supply cable; Check that no damage has been caused to the outer casing and that there are no exposed or loose wires. Obtain the assistance of an electrician if a fault is found. Do not use the machine until it has been rectified. Check that the cable is not running across sharp or jagged edges and that it is not in contact with any liquid.

PNEUMATIC MODELS

Always clear the air hose before connection to the machine. Ensure that no moisture (condensation) is present in the air hose. Check the security of all hoses clamps and fittings, and that the air pressure is correct at 90psi (6.3bar).

Check that there is sufficient air tool oil in the lubricator's reservoir.

The air motor requires a minimum of 70cfm of free air supply (not displaced, as given by some compressor manufactures).

Prior to operating the tool check:

That all parts of the tool are fully screwed/fitted together and secure, if you are in any doubt ask your supervisor before using this equipment.

OPERATION

ALL ELECTRIC MODELS

- Ensure the switch on the motor is set to the OFF position.
- Plug the supply cable into the power source.
- Securely hold the cutter head clear of the ground. The cutter head will engage as soon as the machine is turned on.
- Set the switch to the ON position on the motor unit. The motor will start and the cutter head will rotate.
- To switch off turn the switch to the OFF position.

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

PNEUMATIC MODELS

- Ensure the air supply line is turned off.
- Connect the airline to the Claw coupling on the power unit. A safety Whip Check is highly recommended.
- Turn on the air supply.
- Securely hold the cutter head clear of the ground. The cutter head will engage as soon as the machine is turned on.
- Set the isolator switch on the power unit to the ON position.
- To switch off turn the isolator to the OFF position.

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

MACHINE STORAGE

Short period storage: up to 3 months

Clean outside of the equipment and inspect the consumable items for wear, replace any worn parts as required. Insert a liberal quantity of air tool through the air inlet and run briefly to ensure that the internal components are coated with oil. Cover and store the equipment in a dry location.

Long period storage: over 3 months

Follow instructions set out in 'short period storage'. Additionally lubricate any exposed moving parts with one of the suggested lubricants. Repeat this process every 3 months.

CUTTER HEAD ASSEMBLY

Heavy Duty Scaling Head (340.550)

Secure centre bolt (2) head in vice vertically and fit one of the side plates (6). It is important that the chipping leaves are orientated in the correct manner so that the tip of the leaf is first to contact the surface. Fit a pin into the side plate and place a chipping leaf, (1) and washer (4) alternate with chipping leaf and washer for the length of the pin. The 3 pins must be equally spaced about the 6 holes. Align top plate (6) holes with 3 exposed pins (3). Fit washer (4) and hexagon nut (5) to centre bolt thread. Screw nut down by hand before fastening securely with the spanners provided.

6 Cutter Scaling Head (340.581)

Secure centre bolt (4) head in vice vertically and fit bottom side plate (1). Insert the cutter wheels (5) with pins (6) into holes in the plate. Align top plate (1) holes with the six exposed pins. Fit washer (2) and hexagonal nut (3) to centre bolt thread. Screw nut down by hand before fastening securely.

6" Power Brush (340.160)

Secure centre bolt head in vice vertically and fit washer, wire brush and top washer. Screw hexagonal nut down by hand before fastening securely with the spanners provided.

All scaling heads are fitted to the dumbbell handle by screwing the centre bolt into the dumbbell handle spindle, (1) and fastening securely using the spanners provided.

Fitting of Hand Guard

Place rubber guard (7) onto front of dumbbell handle (1), align holes with metal clamp and fasten securely with bolts, nuts and washers.

CUTTER TYPES & APPLICATIONS

Heavy Duty Scaling Head (340.550)

These are fitted as standard, they are designed for the rapid removal of very heavy rust and scale, they are less aggressive than cutter wheels, and should provide a surface finish suitable for coating with most modern paint systems.

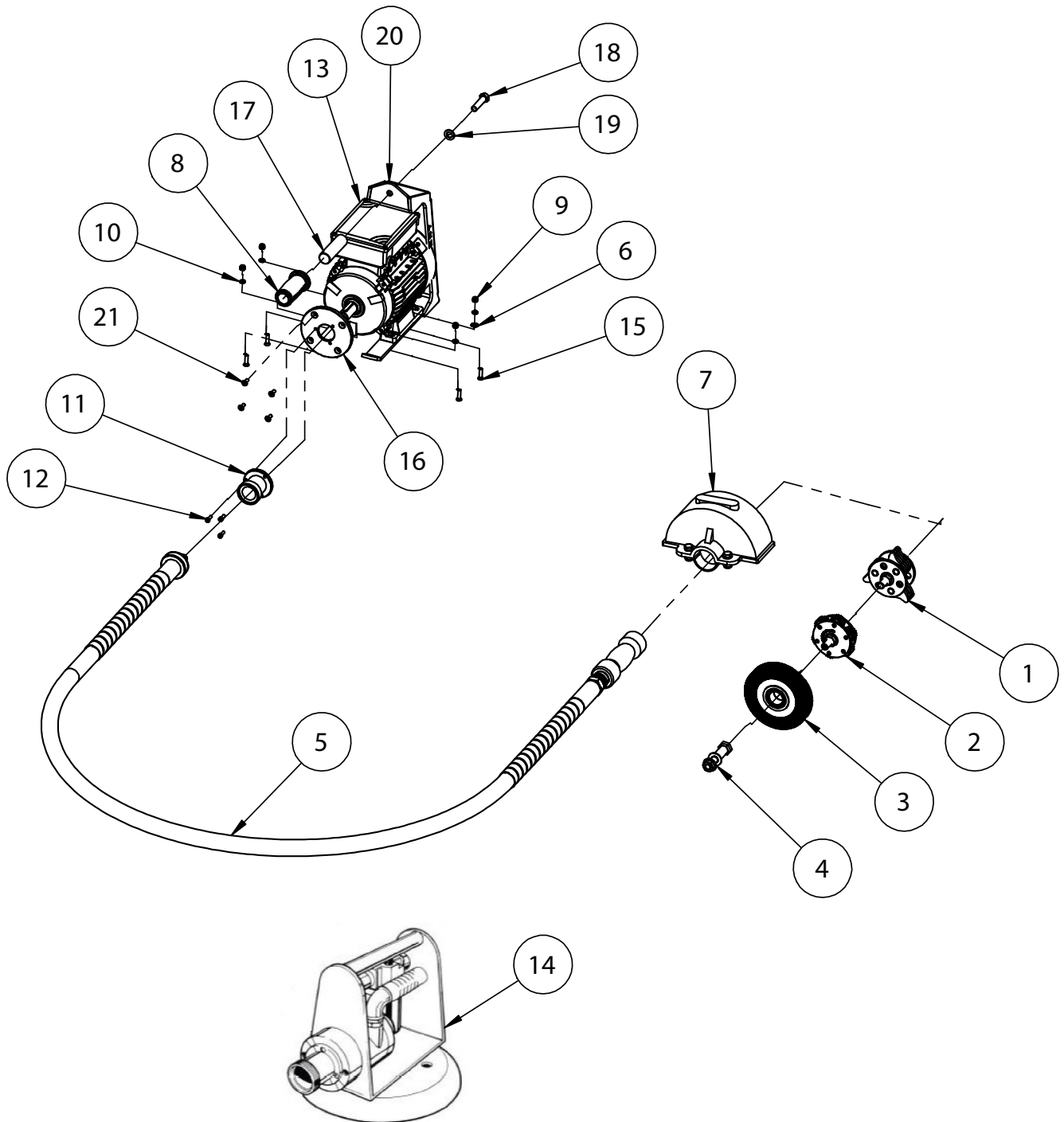
6 Cutter Scaling Head (340.581)

These are the most aggressive, they are designed for the rapid removal of very heavy rust and scale and are also suitable for the rapid removal of two part epoxy paint coatings.

6" Power Brush (340.160)

These are the least aggressive of all, and are generally used for the removal of light rust and paint, or for final finishing to provide a surface suitable for painting. There are various types available, see parts list for further information.

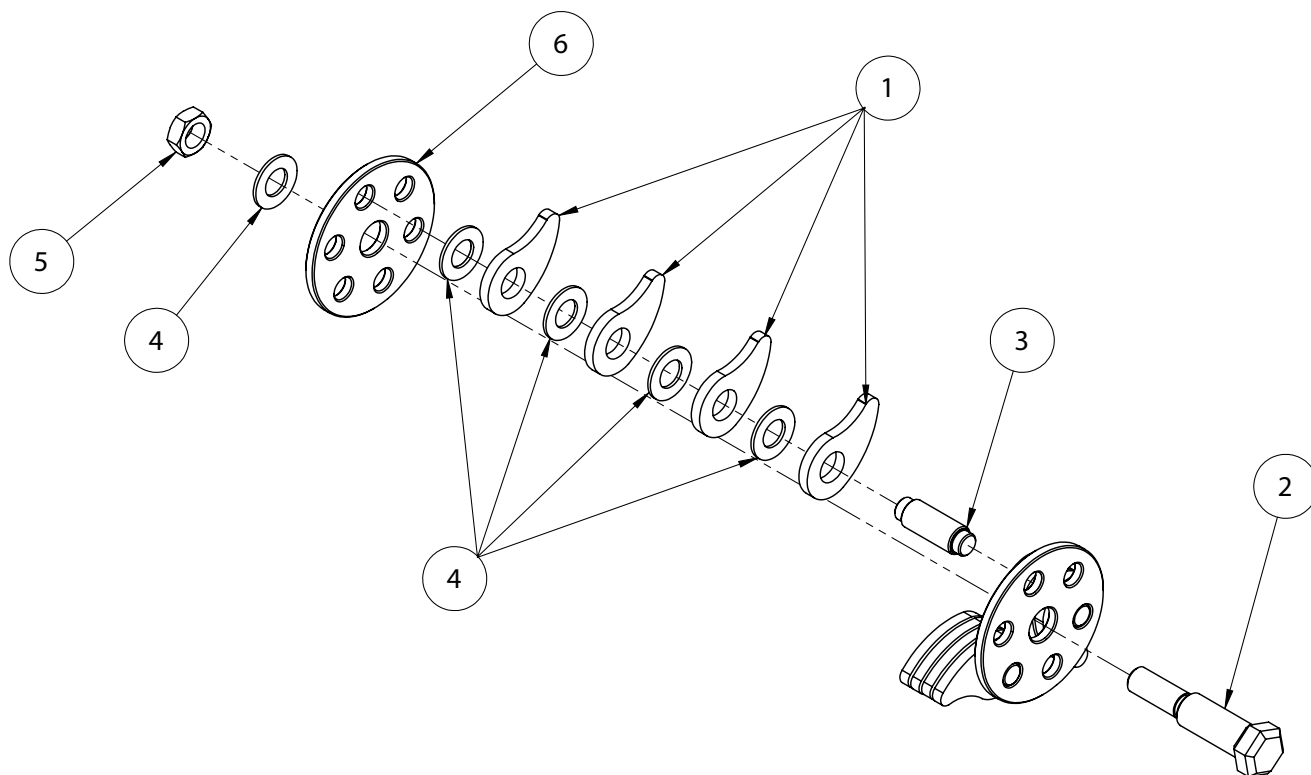
EXPLODED VIEW - TRIDENT NEPTUNE



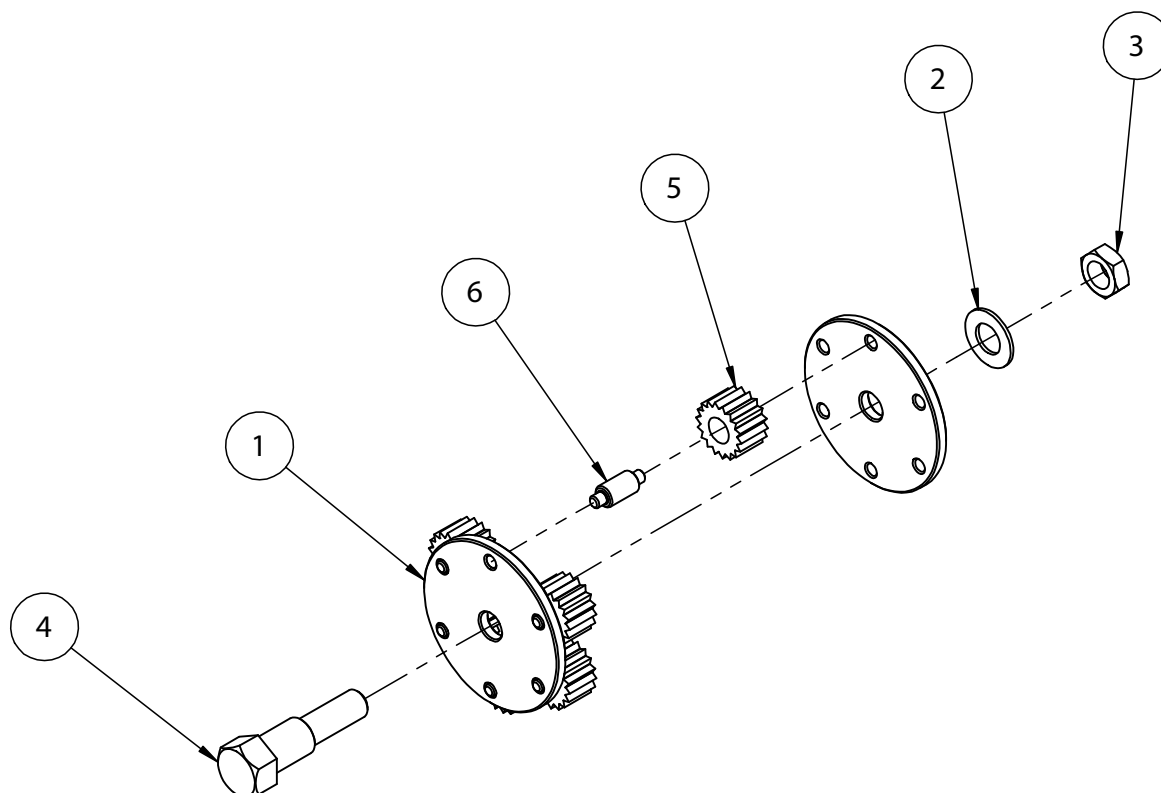
PARTS LIST - TRIDENT NEPTUNE

ITEM NO.	PART NO.	DESCRIPTION	QUANTITY
1	340.550	Heavy Duty Scaling Head	1
2	340.581	6-Cutter Scaling Head	1
3	340.160	Power Brush 6" Dia.	1
4	340.558	Brush Arbor for 340.160 Brush	1
5	340.285	Flexible Drive 9Ft. x 5/8" Dia	1
6	811.1008	M8 Shakeproof Washer	1
7	340.633	Hand Guard For Trident Drive	1
8	717.3055	Grip - Trelawny Logo	1
9	824.0600	M6 Nyloc Nut	4
10	812.1061	M6 Mudguard Washer	4
11	340.664A	Nosepiece For Neptune Motor	1
12	806.0515	M5 x 16mm Cap Head Bolt	3
13	340.TN/12	Electric Motor 0.55kw 1ph 230v 50/60Hz	1
13a	340.TN/14	Electric Motor 0.55kw 1ph 110v 50/60Hz	1
14	340.490	Trident Neptune Power Unit Assembly - Pneumatic	1
15	853.0625	M6 x 25mm Countersunk Screw	4
16	340.TN/3A	Nosepiece Mounting Plate	1
17	340.TN/7	Trident Neptune Handle	1
18	831.1250	M12 x 50mm Hex Head Bolt	1
19	812.0500	1/2" Plain Washer	1
20	340.TN/8A	Trident Neptune Skid Assembly	1
21	853.0616	M6 x 16mm Countersunk Screw	4
ITEMS NOT SHOWN			
N/A	340.332/12	Cutter for 340.581 Head 12 Pk	1
N/A	340.347/24	Leaves For 340.550 Head 24 Pk	1
N/A	340.583/12	Pin For 340.581 Head 12 Pk	1
N/A	340.553/12	Pin for 340.550 Head 12 Pk	1
N/A	340.575/2	Side Plates For 340.581 2 Pk	1
N/A	340.551/2	Side Plates For 340.550 2 Pk	1
N/A	340.163	Twisted Knot Brush 6"D x 5/8"Bore	1
N/A	340.166	Crimp Wire Cup Brush 5/8"Bore	1
N/A	340.167	Twist Knot Cup Brush 5/8" Bore	1
N/A	340.581/A	Bolt Kit For 340.581 Head	1
N/A	340.552	Bolt Kit For 340.550 Head	1
N/A	340.558	Brush Arbor for 340.160 Brush	1
N/A	340.559	Brush Arbor for 340.163 Brush	1
N/A	340.557	Brush Arbor for 340.166 & 340.167 Brush	1

EXPLODED VIEW - HEAVY DUTY HEAD



EXPLODEDVIEW - 6 CUTTER HEAD



PARTS LIST - HEAVY DUTY HEAD

ITEM NO.	PART NO.	DESCRIPTION	QUANTITY
1	340.347	Chipping Leaf for Scaler	12
2	340.552A	Centre Bolt	1
3	340.553	Pins	3
4	340.584	Washer	13
5	340.160A	9/16" BSW Nut-Bright M/Steel	1
6	340.551	Side Plates	2
ITEMS NOT SHOWN			
N/A	340.347/24	Leaves For 340.550 Head 24 Pk	1
N/A	340.553/12	Pin for 340.550 Head 12 Pk	1
N/A	340.551/2	Side Plates For 340.550 2 Pk	1
N/A	340.552	Bolt Kit For 340.550 Head	1
N/A	340.584/50	Washer for 340.550 Head x50	1

PARTS LIST - 6 CUTTER HEAD

ITEM NO.	PART NO.	DESCRIPTION	QUANTITY
1	340.575	Side Plates For 581 Head	2
2	340.584	Washer	1
3	340.160A	9/16" BSW Nut-Bright M/Steel	1
4	340.581B	Centre Bolt for 340.581/A kit	1
5	340.332	Cutter Wheel	6
6	340.583	Pins For 6-Cutter Head	6
ITEMS NOT SHOWN			
N/A	340.332/12	Cutter for 340.581 Head 12 Pk	1
N/A	340.583/12	Pin For 340.581 Head 12 Pk	1
N/A	340.575/2	Side Plates For 340.581 2 Pk	1
N/A	340.581/A	Bolt Kit For 340.581 Head	1

TECHNICAL SPECIFICATIONS

DETAIL	Trident Neptune 110v	Trident Neptune 230v	Trident Neptune Air
Part Code	340.TN/S/110	340.TN/S/220	340.490/S
Description	110v Electric Trident	230v Electric Trident	Pneumatic Trident
Power	0.55kW (0.75HP)	0.55kW (0.75HP)	1.1kW (1.5HP)
Voltage	110v 16amp	230v 16amp	N/A
Air Consumption	N/A	N/A	32.1l/s (68.0 cfm)
Air Pressure	N/A	N/A	6.2 bar (90 psi)
Air Inlet	N/A	N/A	1/2" BSP
Cutter Speed	2,850rpm	2,850rpm	3,000rpm
Cutter Head Working Width	30mm	30mm	30mm
Flexible Shaft Length	2,700mm	2,700mm	2,700mm
Weight	34kg	34kg	35kg
Noise Level L _{PA} dB (A)	73.1 dB (A)	73.1 dB (A)	73.1 dB (A)
Vibration Level m/s ² (Leaf Cutters)*	8.7m/s ² (K= -0% +40%)**	8.7m/s ² (K= -0% +40%)**	8.7m/s ² (K= -0% +40%)**
Vibration Level m/s ² (Cutter Wheels)*	5.4m/s ² (K= -0% +40%)**	5.4m/s ² (K= -0% +40%)**	5.4m/s ² (K= -0% +40%)**
Vibration Level m/s ² (Wire Brush)*	10.1m/s ² (K= -0% +40%)**	10.1m/s ² (K= -0% +40%)**	10.1m/s ² (K= -0% +40%)**
* Indicates test taken from the hand grip location.			
Trelawny SPT Ltd 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.			

Noise Levels measured in accordance with:
EN ISO 15744: 2008
Vibration levels 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 emission during intended use can vary. 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 28927:2012 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)

This equipment has been designed and produced in accordance with the following directives:
2006/42/EC Machinery Directive
2014/35/EC Low Voltage Directive

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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Use only genuine Trelawny consumables with this product. The use of non-Trelawny spare parts invalidates the warranty.

NOTES

THE PERFECT FINISH
STARTS WITH
TRELAWNY



DEALER STAMP:



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Manual Part Number:
735.TN01 01

CERTIFIED
ISO 9001

