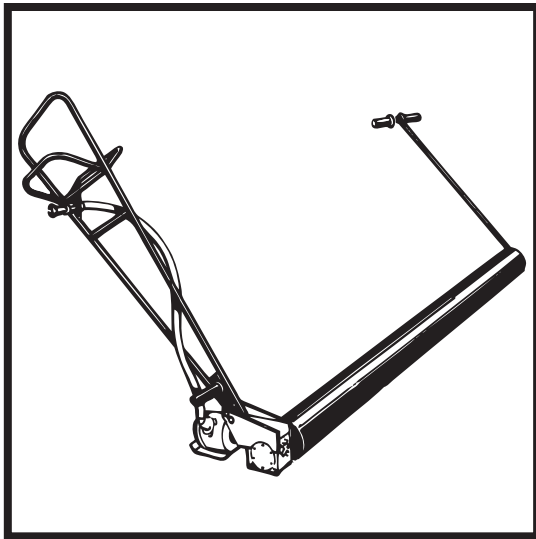


BELLE ROLLER STRIKER

870/20008/4
07/18



Ⓒ Operators Manual

4

• Spare Parts Book

10

EC DECLARATION OF CONFORMITY / DECLARATION CE DE CONFORMITE / DECLARACIÓN DE CONFORMIDAD CE / DECLARAÇÃO CE DE CONFORMIDADE / EG-VERKLARING VAN OVEREENSTEMMING / EF OVERENSSTEMMELSESERKLÆRING



We, **Belle Group Sheen UK, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB**, hereby certify that if the product described within this certificate is bought from an authorised Belle Group dealer within the EEC, it conforms to the following EEC directives: 2006/42/CE (This directive replaces directive 98/37/EC), Electromagnetic Compatibility Directive 2004/108/CE (as amended by 89/336/EEC, 92/31/EEC & 93/68 EEC). The Waste Electrical and Electronic Equipment (WEEE) 2002/96/CE, the low voltage directive 2006/95/CE, BS EN ISO 12100-1:2003 Safety of machinery and associated harmonised standards, where applicable. Noise emissions conform to directives 2000/14/EC Annex VI & 2005/88/EC
Noise Technical files are held by Ray Neilson at the Belle group Head Office address which is stated above.



Nous soussignés, **Belle Group Sheen UK, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB**, certifions que si le produit décrit dans ce certificat est acheté chez un distributeur autorisé Belle Group au sein de la CEE, il est conforme aux directives CEE ci-après: 2006/42/CE (Cette directive remplace la norme 98/37/CE), Directive compatible pour l'électromagnétisme 2004/108/CE (modifié par 89/336/EEC, 92/31/EEC & 93/68 EEC). Les déchets électriques, et d'équipement électronique 2002/96/CE, caractéristiques basse tension 2006/95/CE, BS EN ISO 12100-1:2003 Directive de sécurité des machines et des critères associés et configurés, si applicable. Les émissions de bruit sont conformes à la directive 2000/14/EC Annexe VI et 2005/88/EC.
Les fichiers techniques des émissions sonores sont détenus par Ray Neilson à l'adresse du Siège du Groupe Belle qui est indiqué ci-dessus.



La Sociedad, **Belle Group Sheen UK, Sheen, Nr. Buxton, Derbyshire, SK 17 0EU, GB**, por el presente documento certifica que si el producto descrito en este certificado es comprado a un distribuidor autorizado de Belle Group en la CEE, este es conforme a las siguientes directivas: 2006/42/CE de la CEE (Esta directiva sustituye a la Directiva 98/37/CE), Directiva 2004/108/CE sobre Compatibilidad Electromagnética (según enmiendas 89/336/EEC, 92/31/EEC & 93/68 EEC). Los residuos eléctricos y electrónicos (RAEE) 2002/96/CE, Directiva sobre Bajo Voltaje 2006/95/CE, BS EN ISO 12100-1:2003 de Seguridad de Maquinaria y Niveles armonizados estándares asociados donde sean aplicables. Emisión de Ruidos conforme a la Directiva 2000/14/CE Anexo VI y 2005/88/EC.
Archivos de ruido técnicos están en manos de Ray Neilson en la dirección del grupo Belle Sede de la que se ha dicho.



O signatário, **Belle Group Sheen UK, Sheen, Nr. Buxton, Derbyshire, SK 0EU, GB**, pelo presente, declara que se o produto descrito neste certificado foi adquirido a um distribuidor autorizado do Belle Group em qualquer país da UE, está em conformidade com o estabelecido nas seguintes directivas comunitárias: 2006/42/CE (Esta directiva substitui a Directiva 98/37/EC), Directiva de Compatibilidade Electromagnética 2004/108/CE (conforme corrigido pelas 89/336/EEC, 92/31/EEC & 93/68 EEC). O Eléctrico de Desperdício e Equipamento Electrónico (DEEE) 2002/96/CE, a directiva de baixa voltagem 2006/95/CE, BS EN ISO 12100-1:2003 Segurança da maquinaria e às normas harmonizadas afins se aplicáveis. As emissões de ruído respeitam e estão dentro das directivas para máquinas 2000/14/EC Anexo VI & 2005/88/EC.
Arquivos de ruído técnicos são detidos por Ray Neilson no endereço Escritório Belle grupo Cabeça que é dito acima.



Ondergetekende, **Belle Group Sheen UK, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB**, verklaren hierbij dat als het product zoals beschreven in dit certificaat is gekocht van een erkende Belle Group dealer binnen de EEG, het voldoet aan de volgende EEG richtlijnen: 2006/42/CE (Deze richtlijn vervangt Richtlijn 98/37/EC), Electromagnetische Compatibiliteit Richtlijn 2004/108/CE (geamendeerd door 89/336/EEC, 92/31/EEC & 93/68 EEC). De afgedankte elektrische en elektronische apparatuur (AEEA) 2002/96/CE, de Laagspannings Richtlijn 2006/95/CE, BS EN ISO 12100-1:2003 Veiligheid van Machines en hieraan gekoppelde geharmoniseerde Standaarden, waar deze van toepassing is. Geluidshinder te voldoen aan de richtlijnen 2000/14/EG en 2005/88/EG bijlage VI.
Lawaai Technische dossiers zijn in handen van Ray Neilson op de Belle groep hoofdkantoor adres, dat staat boven



Vi, **Belle Group Sheen UK, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB**, erklærer hermed, at hvis det i dette certifikat beskrevne produkt er købt hos en autoriseret Belle Group forhandler i EU, er det i overensstemmelse med følgende EØF-direktiver: 2006/42/CE (Dette direktiv erstatter direktiv 98/37/EF), 2004/108/EØF (som ændret ved 89/336/EEC, 92/31/EØF & 93/68 EØF), Affald af elektrisk og elektronisk udstyr (WEEE) 2002/96/CE, og tilknyttede, harmoniserede standarder, hvor relevant. Støjniveauet er i overensstemmelse med direktiv 2006/95/CE, BS EN ISO 12100-1:2003. Støjemission i overensstemmelse med direktiverne 2000/14/EF bilag VI og 2005/88/EF.
Støj Tekniske filer er i besiddelse af Ray Neilson på Belle-gruppen hovedkontoret adresse, som er nævnt ovenfor.

PRODUCT TYPE	TYPE DE PRODUIT.....	TIPO DE PRODUCTO
MODEL.....	MODELE.....	MODELO
SERIAL No.....	N° DE SERIE	N° DE SERIE
DATE OF MANUFACTURE.	DATE DE FABRICATION	FECHA DE FABRICACIÓN..
SOUND POWER LEVEL MEASURED /	NIVEAU DE PUISSANCE SONORE MESUREE /	NIVEL DE POTENCIA ACÚSTICA MEDIDO /
.....(GUARANTEED)(GARANTIE)(GARANTIZADO)
WEIGHT.....	POIDS.....	PESO
TIPO DE PRODUCTO.....	PRODUCTTYPE.....	PRODUKTTYPE.....
MODELO.....	MODEL	MODEL
NO. DE SÉRIE	SERIENUMMER	SERIENR.....
DATA DE FABRIC.....	FABRICAGEDATUM	FREMSTILLINGSDATO
NIVEL DE POTÊNCIA DE SOM MEDIDO /	GEMETEN GELUIDSSTERKTENIVEAU /	LYDEFFEKTNIVEAU MÅLT /
.....(GARANTIDO)(GEGARANDEERD)(GARANTERET)
PESO.....	GEWICHT	VÆGT.....



Signed by:
 Signature:
 Medido por:
 Assinado por:
 Getekend door:
 Uunderskrevet af:

Ray Neilson

Managing Director - On behalf of BELLE GROUP (SHEEN) UK.
Le Directeur Général - Pour le compte de la SOCIETE BELLE GROUP (SHEEN) UK.
Director Gerente - En nombre de BELLE GROUP (SHEEN) UK.
Director-Geral - Em nome de BELLE GROUP (SHEEN) UK.
Algemeen Directeur - Namens BELLE GROUP (SHEEN) UK.
Administrerende direktør - På vegne af BELLE GROUP (SHEEN) UK.

Place of Declaration - Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK
Lieu de déclaration - Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK
Declaración hecha en - Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK
Lugar de Declaração - Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK
Plaats van de Verklaring - Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK
Sted i erklæring - Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK

Date of Declaration - 1993
Date de déclaration - 1993
Fecha de la declaración - 1993
Data da Declaração - 1993
Datum van de verklaring - 1993
Dato for erklæringen - 1993

**СЕРТИФИКАТ СООТВЕТСТВИЯ / EÜ VASTAVUSDEKLARATSIOON / ATBILSTĪBAS
DEKLARĀCIJA / ES ATĪTIKTIES DEKLARACIJA / ДЕКЛАРАЦИЯ ЗА СПАЗВАНЕ НА
ИЗИСКВАНИЯ / ΕΕ ΔΗΛΩΣΗ ΚΑΤΑΜΗΛΟΤΗΤΑΣ**



Мы, нижеподписавшиеся, от имени Belle Group Sheen (Великобритания), Sheen, Nr. Buxton, Derbyshire SK17 0EU, Великобритания, заявляем, что в случае, если описанная в данном сертификате продукция была приобретена у уполномоченного представителя Белле Групп в ЕС, то она соответствует следующим директивам ЕС: 2006/42/CE (Эта директива заменяет директиву 98/37/ЕЕС), директиве электромагнитной совместимости 2004/108/CE (дополненной 89/336/ЕЕС, 92/31/ЕЕС & 93/68 ЕЕС). Утилизации электрического и электронного оборудования (WEEE) 2002/96/CE. директиве в области низкого напряжения 2006/95/CE, по применимым параметрам стандарту BS EN ISO 12100-1:2003 «Безопасность машин и связанные с этим гармонизированные стандарты». Уровень шума в соответствии с директивами 2000/14/ЕС и 2005/88/ЕС Приложение VI

Шум технического файлы хранятся Рэй Нельсон на руководителя группы Belle Управления адрес, который указан выше.



Meie, Belle Group Sheen UK, Sheen, Nr Buxton, Derbyshire, SK17 0EU, GB, kinnitan, et kui kirjeldatud toote jooksul käesoleva sertifikaadi on ostetud lubatud Belle nimel vahendaja jooksul EMÜ, see vastab järgmistele EMÜ direktiividele: 2006/42/CE (käesolev direktiiv asendab direktiivi 98/37/EÜ), elektromagnetilise ühilduvuse direktiivi 2004/108/CE (muudetud 89/336/EMÜ, 92/31/EMÜ ja 93/68 EMÜ). Ja elektroonikaseadmete jäätmete (WEEE) 2002/96/CE, madalpinge direktiivi 2006/95/CE, BS EN ISO 12100-1:2003 Masinate ohutus ning sellega seotud ühtlustatud standarditele, kui see on kohaldatav. Müratase vastavalt direktiivide 2000/14/EÜ ja 2005/88/EÜ VI lisa.

Müra Tehniline faile hoitakse Ray Neilson kell Belle grupi peakontor adress, mis on märgitud eespool.



Mēs, Belle Group Sheen UK, Nr. Buxton, Derbyshire, SK17 0EU, ar šo apliecinām, ar šo apliecinu, ka gadījumā, ja produkts aprakstīts šajā sertifikātā ir iegādājies no pilnvarota Belle grupas dīlera teritorijā EEK, tā atbilst šādām EK direktīvām: 2006/42/CE (Šī direktīva aizvieto Direktīvu 98/37/EK), Elektromagnētiskās saderības direktīvu 2004/108/CE (kurā grozījumi izdarīti ar 89/336/EEK, 92/31/EEK un 93/68 EEK). Elektrisko un elektronisko iekārtu atkritumiem (EEIA), 2002/96/CE, zemsprieguma directive 2006/95/CE, BS EN ISO 12100-1:2003 Mašīnu drošība un saistītos saskaņotus standartus, ja vajadzīgs. Trokšņa emisiju saskaņā ar Direktīvu 2000/14/EK un 2005/88/EK VI pielikumu.

Trokšņa Tehniskās faili tur Ray Neilson pie Belle grupas galvenā biroja adrese, kas norādīts iepriekš.



Mes, Belle Group Sheen UK, Sheen, Nr Buxton, Derbyshire, SK 0EU, GB, patvirtinu, kad jei produktas, kaip aprašyta šio sertifikato pirkti iš leidžiama Belle frakcijos atstovas pagal EEB, jis atitinka šiuos EEB direktyvas: 2006/42/CE (ši direktyva pakeičia Direktyvą 98/37/EB), elektromagnetinio suderinamumo direktyvos 2004/108/CE (su pakeitimais, padarytais 89/336/EEB, 92/31/EEB ir 93/68 EEB). Elektros ir elektroninės įrangos atliekų (EEI atliekų), 2002/96/CE, Žemosios įtampos įrangos direktyvą 2006/95/CE, LST EN ISO 12100-1:2003 Mašinių sauga ir susiję darnieji standartai, jei taikytina. Triukšmo emisijos pagal Direktyvų 2000/14/EB ir 2005/88/EB VI priedo.

Triukšmo Techniniai failai vyks Ray Neilson Belle grupės buveinės adreso, kuris nurodytas aukščiau.



Компанията, Belle Group Sheen UK, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB, се удостоверява, че ако стоката е описано в този сертификат е закупен от оторизиран дилър Belle група в рамките на ЕИО, то отговаря на следните директиви на ЕИО: 2006/42/CE (настоящата директива заменя Директива 98/37/EO), електромагнитна съвместимост Директива 2004/108/CE (както е изменен с 89/336/ЕИО, 92/31/ЕИО & 93/68 ЕИО). За отпадъците от електрическо и електронно оборудване (ОЕЕО), 2002/96/CE, ниското напрежение директива 2006/95/CE, BS EN ISO 12100-1:2003 Безопасност на машините и свързаните с тях хармонизирани стандарти, когато е приложимо. Шумовите емисии в съответствие с директиви 2000/14/EO и 2005/88/EO на приложение VI.

Шум Технически файлове се провеждат от Рей Нийлсън в групата адрес Belle централното управление, което е посочено по-горе.



Εμείς, η Belle Group, Sheen UK, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, Μεγάλη Βρετανία, βεβαιώνω ότι, αν το προϊόν που περιγράφεται σε αυτό το πιστοποιητικό έχει αγοράστεί από εξουσιοδοτημένο αντιπρόσωπο Belle ομάδα στο εσωτερικό της ΕΟΚ, θα συμμορφώνεται με τις ακόλουθες οδηγίες ΕΟΚ: 2006/42/CE (Η παρούσα οδηγία αντικαθιστά την οδηγία 98/37/ΕΚ), Ηλεκτρομαγνητική Συμβατότητα οδηγία 2004/108/CE (όπως τροποποιήθηκε από την 89/336/ΕΟΚ, 92/31/ΕΟΚ και 93/68 ΕΟΚ). Τα Απόβλητα Ηλεκτρικού και Ηλεκτρονικού Εξοπλισμού (ΑΗΗΕ) 2002/96/CE, η οδηγία 2006/95/CE χαμηλής τάσης, BS EN ISO 12100-1:2003 Ασφάλεια μηχανών και των σχετικών εναρμονισμένων προτύπων, ανάλογα με την περίπτωση. Εκπομπών θορύβου σύμφωνα με τις οδηγίες 2000/14/ΕΚ και 2005/88/ΕΚ του παραρτήματος VI.

Οι θορύβου Τεχνικά αρχεία που κατέχονται από Ray Neilson στην ομάδα Belle Διεύθυνση έδρας που αναφέρεται παραπάνω.

ТИП ПРОДУКЦИИ.....	TOOTE TÛÛP.....	PRODUKTA TIPS.....
МОДЕЛЬ.....	MUDEL.....	MODELIS.....
СЕРИЙНЫЙ НОМЕР.....	SERIANUMBER.....	SĒRIJAS NR.....
ДАТА ВЫПУСКА.....	VALMISTAMISE KUUPÄEV.....	IZGATAVOŠANAS DATUMS.....
УРОВЕНЬ ШУМА ЗАМЕР ПРОИЗВЕДЕН /(ГАРАНТИРОВАН)	HELITUGEVUSE TASE MÕÕDETUD /(GARANTEERITUD)	IZMĒRĪTAIS SKAŅAS JAUDĀS LĪMENIS /(GARANTĒTAIS)
ЧАСТОТА.....	KAAL.....	MASA.....
GAMINIO TIPAS.....	ВИД НА ПРОДУКТА.....	Τύπος προϊόντος.....
MODELIS.....	ΜΟΔΕΛ.....	Μοντέλο.....
SERIJOS NR.....	СЕРИЕН НОМЕР.....	Αριθμός Σειράς.....
PAGAMINIMO DATA.....	ДАТА НА ПРОИЗВОДСТВО..	Μετρημενη.....
GARSO STIPRUMO LYGIS IŠMATUOTAS /(GARANTUOTAS)	НИВО НА СИЛАТА НА ЗВУКА ИЗМЕРЕНО /(ГАРАНТИРАНО)	Σταθμη Θορυβου Κατα Την Ημερομηνια Κατασκευης / (Εγγυημενη)
SVORIS.....	ТЕОЯЛ.....	Βάρος.....



Подпись:
Alla kirjutanud:
Paraksts:
Pasiraše:
Подпис:
Υπογραφή:



Ray Neilson

исполнительный директор - от имени БЕЛЛЕ ГРУП ШИИН (ВЕЛИКОБРИТАНИЯ).
Tegevdirektor - BELLE GROUP (SHEEN) UK poolt.
Vadošais direktors - Pārstāvot BELLE GROUP (SHEEN) UK.
Generalinis direktorius - BELLE GROUP (SHEEN) UK vardu.
Рей Нилсън - Управляващ директор от името на BELLE GROUP (SHEEN) UK.
Διευθύνων Σύμβουλος - εκ μέρους της BELLE GROUP (SHEEN) Μεγάλη Βρετανία.

Место декларирования - Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK
Koht deklaratsiooni - Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK
Vieta deklarācijai - Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK
Vieta deklarācijas - Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK
Дата на декларация - Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK
Τόπος Διακήρυξης - Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK
Дата декларирования - 1993.....
Deklaratsiooni kuupäev - 1993.....
Dienas deklarācija - 1993.....
Data deklarācijas - 1993.....
Място на декларация - 1993.....
Ημερομηνία δήλωσης - 1993.....



How To Use This Manual

This manual has been written to help you operate and service the 'Roller Striker' safely. This manual is intended for dealers and operators of the 'Roller Striker'.

Foreword

The '**Machine Description**' section helps you to familiarise yourself with the machine's layout and controls.

The '**Environment**' section gives instructions on how to handle the recycling of discarded apparatus in an environmentally friendly way.

The '**General Safety**' and '**Health and Safety**' sections explain how to use the machine to ensure your safety and the safety of the general public.

The '**Operating Instructions**' section helps you with the setting up and use of the machine.

The '**Trouble Shooting**' guide helps you if you have a problem with your machine.


The '**Service & Maintenance**' section is to help you with the general maintenance and servicing of your machine.


The '**Warranty**' Section details the nature of the warranty cover and the claims procedure.

The '**Declaration of Conformity**' section shows the standards that the machine has been built to.

Directives with regard to the notations.


Text in this manual to which special attention must be paid are shown in the following way:

 **CAUTION** *The product can be at risk. The machine or yourself can be damaged or injured if procedures are not carried out in the correct way.*

 **WARNING** *The life of the operator can be at risk.*



WARNING

 **WARNING** *Before you operate or carry out any maintenance on this machine **YOU MUST READ** and **STUDY** this manual.*

KNOW how to safely use the unit's controls and what you must do for safe maintenance. (NB Be sure that you know how to switch the machine off before you switch on, in case you get into difficulty.)

ALWAYS wear or use the proper safety items required for your personal protection. If you have **ANY QUESTIONS** about the safe use or maintenance of this unit, ASK YOUR SUPERVISOR OR CONTACT: **Altrad Belle (UK): +44 (0) 1298 84606**

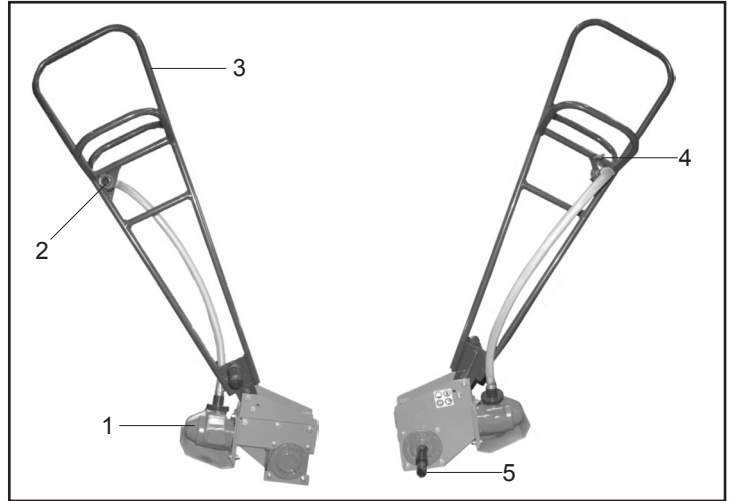
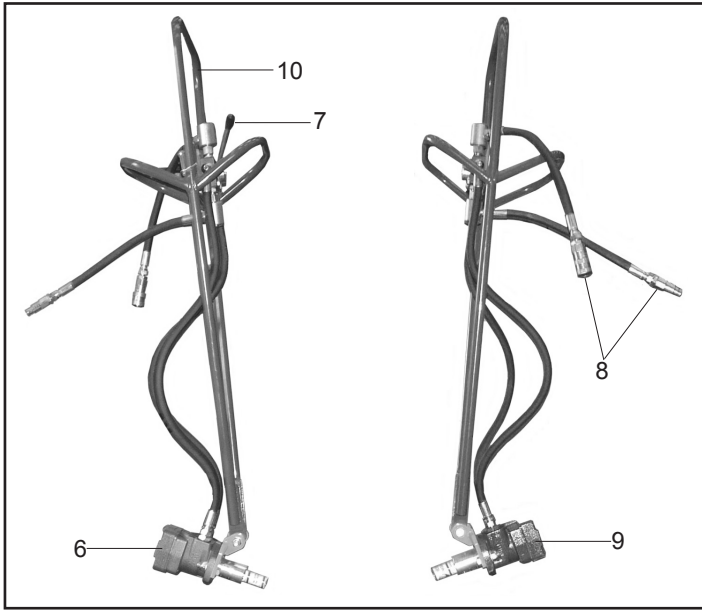


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General Safety	6
Health and Safety	6
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Altrad Belle reserves the right to change machine specification without prior notice or obligation.

Machine Description



Pneumatic Option

- 1. Motor
- 2. Compressor Claw
- 3. Operating Handle
- 4. Control Lever
- 5. Drive Connector

Hydraulic Option

- 6. Motor
- 7. Control Lever
- 8. Couplings
- 9. Drive Connector
- 10. Operating Handle

Technical Data



Model	Roller Striker	Sectional Roller Striker
Tube Length (M)	3.66 - 7.92	2.2 - 7.2
Machine Weight - Hydraulic (kg)		24
Machine Weight - Pneumatic (kg)		29
Motor Power - Hydraulic (hp)		3
Motor Power - Pneumatic (hp)		2.2
Max. Drive Speed - Hydraulic (rpm)		500
Max. Drive Speed - Pneumatic (rpm)		250
Pressure Required - Hydraulic (Bar)		140
Pressure Required - Pneumatic (Psi)		90
Flow Rate - Hydraulic (l/min)		30
Flow Rate - Hydraulic (cfm)		50
3 Axis Vibration - Hydraulic (M/Sec ²)		4.00
3 Axis Vibration - Pneumatic (M/Sec ²)		4.06
Usage Time - Hydraulic (Mins)		187.5
Usage Time - Pneumatic (Mins)		182.0

Environment



Safe Disposal



Instructions for the protection of the environment. The machine contains valuable materials. Take the discarded apparatus and accessories to the relevant recycling facilities.

Component	Material
Operator Handle	Steel
Handle Grips	Rubber
Main Tube	Steel
Various Parts	Steel, Rubber & Aluminium



General Safety

For your own personal protection and for the safety of those around you, please read and ensure you fully understand the following safety information. It is the responsibility of the operator to ensure that he/she fully understands how to operate this equipment safely. If you are unsure about the safe and correct use of the 'Roller Striker', consult your supervisor or Altrad Belle.



CAUTION

Improper maintenance can be hazardous. Read and Understand this section before you perform any maintenance, service or repairs.

- This equipment is heavy and must not be lifted single-handedly, either GET HELP or use suitable lifting equipment.
- Cordon off the work area and keep members of the public and unauthorized personnel at a safe distance.
- Personal Protective Equipment (PPE) must be worn by the operator whenever this equipment is being used (see Health & Safety).
- Make sure you know how to safely switch this machine OFF before you switch it ON in case you get into difficulty.
- Always switch OFF the engine before transporting, moving it around the site or servicing it.
- During use the engine becomes very hot, allow the engine to cool before touching it. Never leave the engine running and unattended.
- Always ensure that no person or obstruction is in your line of travel. Watch your step to avoid tripping.
- Never remove or tamper with any guards / pipes fitted, they are there for your protection. Always check guards for condition and security, if any are damaged or missing, DO NOT USE THE MACHINE until the guard / pipe has been replaced or repaired.
- Do not operate the MACHINE when you are ill, feeling tired, or when under the influence of alcohol or drugs.



Health & Safety

Vibration.

Some vibration from the Roller Striker is transmitted through the handle to the operator's hands. Refer to specifications & technical data for vibration levels and usage times (recommended maximum daily exposure time). DO NOT exceed the maximum usage times.

PPE (Personal Protective Equipment).

Suitable PPE must be worn when using this equipment i.e. Safety Goggles, Gloves, Ear Defenders, Dust Mask and Steel Toe capped footwear. Wear clothing suitable for the work you are doing. Always protect skin from contact with concrete. Suitable ear defenders should be used.



Pre-start Checks

Pre start-up inspection.

The following Pre-start-up inspection must be performed before the start of each work session or after every four hours of use, whichever is first. Please refer to the service section for detailed guidance. If any fault is discovered, the Roller Striker must not be used until the fault is rectified.

1. Thoroughly inspect the Roller Striker for signs of damage. Check that the handles are securely attached.
2. Check fluid lines, hoses filler openings, drain plugs and any other areas for signs of leakage. Fix any leaks before operating.
3. Inspect the entire unit for loose bolts/nuts and retighten/replace as necessary.
4. **Sectional models only** - Ensure that the sections are securely assembled before use.



CAUTION

Improper operation can be hazardous. Ensure that you are familiar with the operation of the Compressor and the Roller Striker before use.

Start and Stop procedure - Hydraulic Models

1. Refer to the manufacturers Operating Instructions Manual for the start up procedure for Hydraulic Power Packs.
2. Ensure that before starting the Power pack that all connections are tight and that the control valve on the striker is in the **NEUTRAL** position (See Fig. 1)

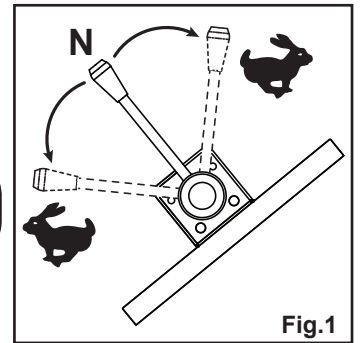


Fig.1



CAUTION

Always ensure the operators are in control of the Roller Striker before moving the lever on the Power Pack from Bypass to Flow to prevent the striker operating unexpectedly.

3. Ensure that you move the control lever to the correct position for the direction of travel (See Fig. 2)
4. This will ensure that the striker is rotating in the opposite direction to that in which it is being pulled.
5. To start the roller striker, move the Control Lever slowly to the **DRIVE** position as indicated below (See Fig. 2)
6. To stop the roller striker, move the Control Lever to the **NEUTRAL** position (See Fig. 1)

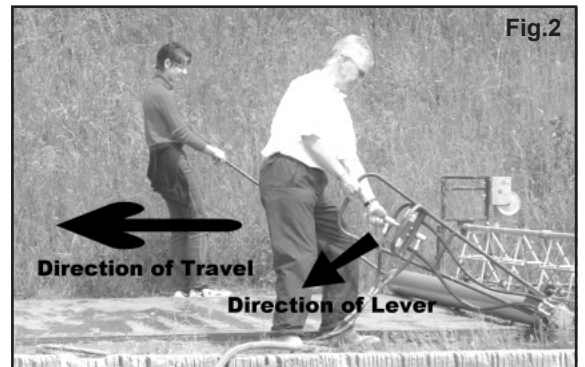


Fig.2

Start and Stop procedure - Pneumatic Models

1. Refer to the manufacturers Operating Instructions Manual for the start up procedure for Compressors.
2. Ensure that before starting the Compressor that all connections are tight and that the control valve on the striker is in the **CLOSED** position.
3. To start the roller striker, move the Control Lever to the **OPEN** position.
4. To stop the roller striker, move the Control Lever to the **CLOSED** position.

Fig.2 shows the Pneumatic Control Lever in the **OPEN** position, with arrow indicating direction for **CLOSED** position.

Assembly of Sectional Tube.

Using the 3 tubes as individuals with the short drive end or combining 2 lengths with the adaptor plate it is possible to make tubes of the following lengths : 2.2, 3.2, 4.2, 5.2, 6.2 and 7.2 metres.

Tools required:

- 24mm Socket (19.1.270)
- 17mm Socket (19.1.404)
- Torque Wrench (19.1.827)
- Special Tool (150040)

Assembly Instructions

1. Remove setscrews (A), washers (B) and drive plate (C).
2. Fit special tool (D) around hexagon spacers (E).
3. Slacken off the tension screw (F) until the connector (G) is fully exposed.
4. Check the tension of threaded dowel (H) & (I).
5. Screw the link rod (G) up to the nut (J) and then unscrew 1/2 a turn. This will allow you to connect the two ends tightly together.
6. Connect the adaptor plate (K) or short drive end (L) to the connector (G) and slide the securing ring (M) into the centre groove.
7. Push the adaptor plate (K) into the tube (N).
8. With the special tool (D) still in position, tighten the tension screw (F) to 100Nm.
9. Replace the end plate (C), washers (B) and setscrews (A).
10. Repeat the procedure to connect the second length of tube if required.
11. For disassembly, reverse the procedure.

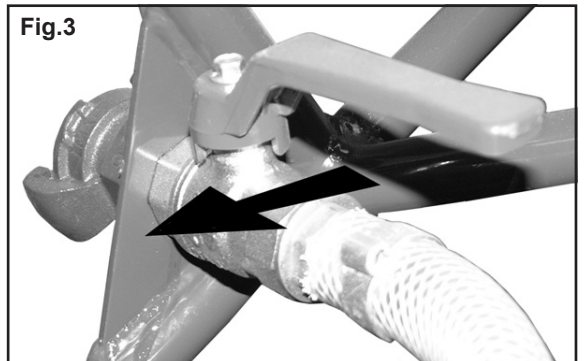


Fig.3

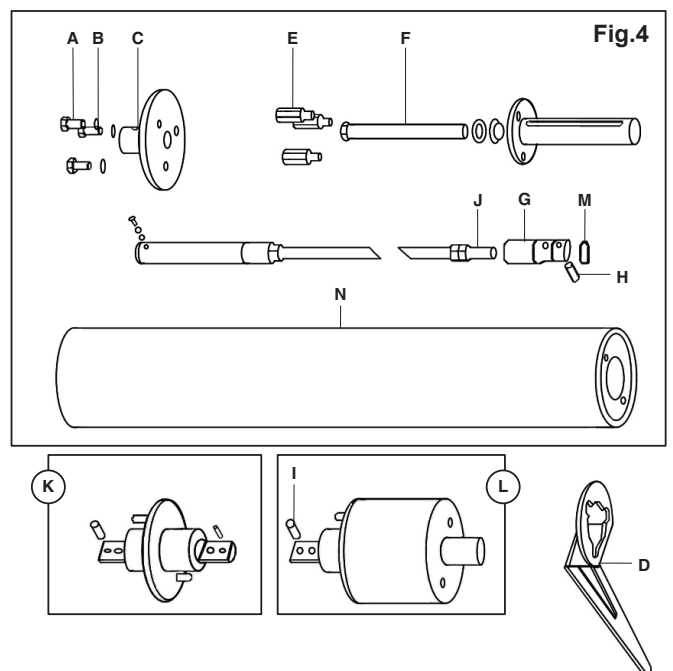


Fig.4



Operating Instructions



CAUTION

Always ensure that you are aware of the direction of travel when using the roller striker. If you incorrectly engage the drive mechanism you will not only endanger yourself, but also endanger the other operator(s)

Take the Roller Striker to where it is required.

If the Roller Striker is to be transported to another location, ensure that the Striker is not rotating and that the Hydraulic / Pneumatic pipes are disconnected. NEVER transport the Roller Striker whilst it is still connected to the Drive source, even if it is only being moved a short distance.

When using a sectional roller striker, ensure:

- a) that the individual tubes have been disassembled fully before transporting.
- b) that the tubes have been correctly connected together before using the machine.

Having carried out the checks listed in the 'pre start' section, you may connect it to the drive source and move the control lever to the ON or DRIVE position.

When positioned correctly the tube will start rotating away from the operator. Ensure that the other operative knows you are going to start the machine. ALWAYS check the tube for any signs of unusual noise. If this occurs, stop the machine immediately and refer to the troubleshooting section. The Roller Striker will then require a consistent pulling movement to attain a consistent finish.

Communication.

Bad communication can cause accidents. If two or more people are working with the machine, make sure that each person is aware of what the others are doing. Before starting the machine make sure that others are clear of the danger areas. People can be seriously injured or even killed if these precautions are not taken. Keep people around you informed of what you will be doing. If you will be working with other people, make sure that they understand any hand signals that you intend to use. Work sites can be very noisy - do not rely on spoken commands.



Troubleshooting Guide

Problem	Cause	Remedy
Tube not rotating.	Not connected to power.	Connect to power source source.
	Sectional tubes incorrectly.	Reconnect correctly connected.
Tube still not rotating.	Major fault.	Contact Service Agent or Altrad Belle.
Unusual noise or operation of the tube.	Check drive end connection.	Re-connect if necessary.
	Check pull handle connection.	Re-connect if necessary.
	Sectional tubes incorrectly connected.	Re-connect correctly.
Sectional Tube keeps coming apart.	Damaged or incorrectly tensioned dowel pins.	Check and replace as necessary
Concrete sticking to striker tube.	Concrete too dry.	Wet concrete.

Maintenance

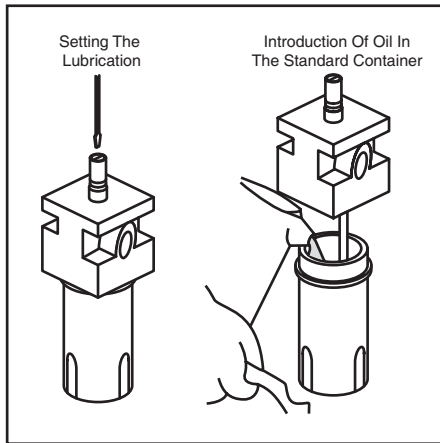
The Altrad Belle 'Roller Strikers' are designed to give many years of trouble free operation. It is recommended that an approved Altrad Belle dealer carries out all major maintenance and repairs. Always use genuine Altrad Belle replacement parts, the use of spurious parts may void your warranty.

Before any maintenance is carried out on the machine, ensure that it has been disconnected from any power source.

Always ensure that on the Pneumatic roller striker that the air lubricator is kept topped up with oil. Use only Altrad Belle AL4 lubricating oil or equivalent.

Always ensure that the drive ends are kept clean and free from concrete deposits. Ensure that the drive ends are kept lubricated to avoid rust damage.

To keep your sectional roller striker in good working order, always check that the dowel pins (129.0.214) are tightly in position, are not bent and are in good condition. Ensure also, that the mating faces on the adaptor plate and link rod are not damaged and in good condition.



Typical Physical Data

Appearance	Reddish - brown
Specific Gravity (20°C)	1.107
Refractive Index (20°C)	1.427
Boiling Point (760 mmHg)	115°C
Vapour Pressure	8.5 mmHg
Vapour Density (Air = 1)	1.69
Viscosity (20°C)	20 mm ² /s
Solubility in Water	Complete
Pour Point	-60°C
Typical Working Strength	100%

Warranty

Your new Altrad Belle Roller Striker is warranted to the original purchaser for a period of one-year (12 months) from the original date of purchase. The Altrad Belle warranty is against defects in design, materials and workmanship.

The following are not covered under the Altrad Belle warranty:

1. 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.
2. Alterations, additions or repairs carried out by persons other than Altrad Belle or their recognised agents.
3. Transportation or shipment costs to and from Altrad Belle or their recognised agents, for repair or assessment against a warranty claim, on any machine.
4. Materials and/or labour costs to renew, repair or replace components due to fair wear and tear.

The following components are not covered by warranty.

- Drivebelt/s
- Engine air filter
- Engine spark plug

Altrad Belle and/or their recognised agents, directors, employees or insurers will not be held liable for consequential or other damages, losses or expenses in connection with or by reason of or the inability to use the machine for any purpose.

Warranty Claims

All warranty claims should firstly be directed to Altrad Belle, either by telephone, by Fax, by E-mail, or in writing.

For warranty claims

Altrad Belle Warranty Department,
Unit 5, Bode Business Park,
Ball Hays Green,
Leek,
Staffordshire,
ST13 6BW,
GB

Tel: +44 (0)1538 380000

Fax: +44 (0)1538 380038

E-mail: warranty@belle-group.co.uk