

## OPERATING INSTRUCTIONS

### Bench-mounting Mixer, 5 Litre Nominal Capacity

**23-6191**

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<p><i>In the interests of improving and updating its equipment, ELE reserves the right to alter specifications to equipment at any time</i> <b>ELE International 2005 ©</b></p>		

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## 1 Safety Information

The information in this manual has been prepared to assist the operator to understand, maintain and operate the mixer. Before installation or operating for the first time, this manual must be studied to obtain a clear understanding of the mixer and its capabilities.

To prevent accidents, read, understand and follow all the precautions and warnings contained in this manual before operating or carrying out any of the cleaning/maintenance operations. For warning information see the section on 'commissioning and operation' and 'using attachments'. The procedures and precautions contained in this manual are understood to apply to the machinery only when it is used in the authorised manner. If the machinery is used other than in the authorised manner, the operator will be responsible for his/her own safety and for the safety of the other persons who may be involved.

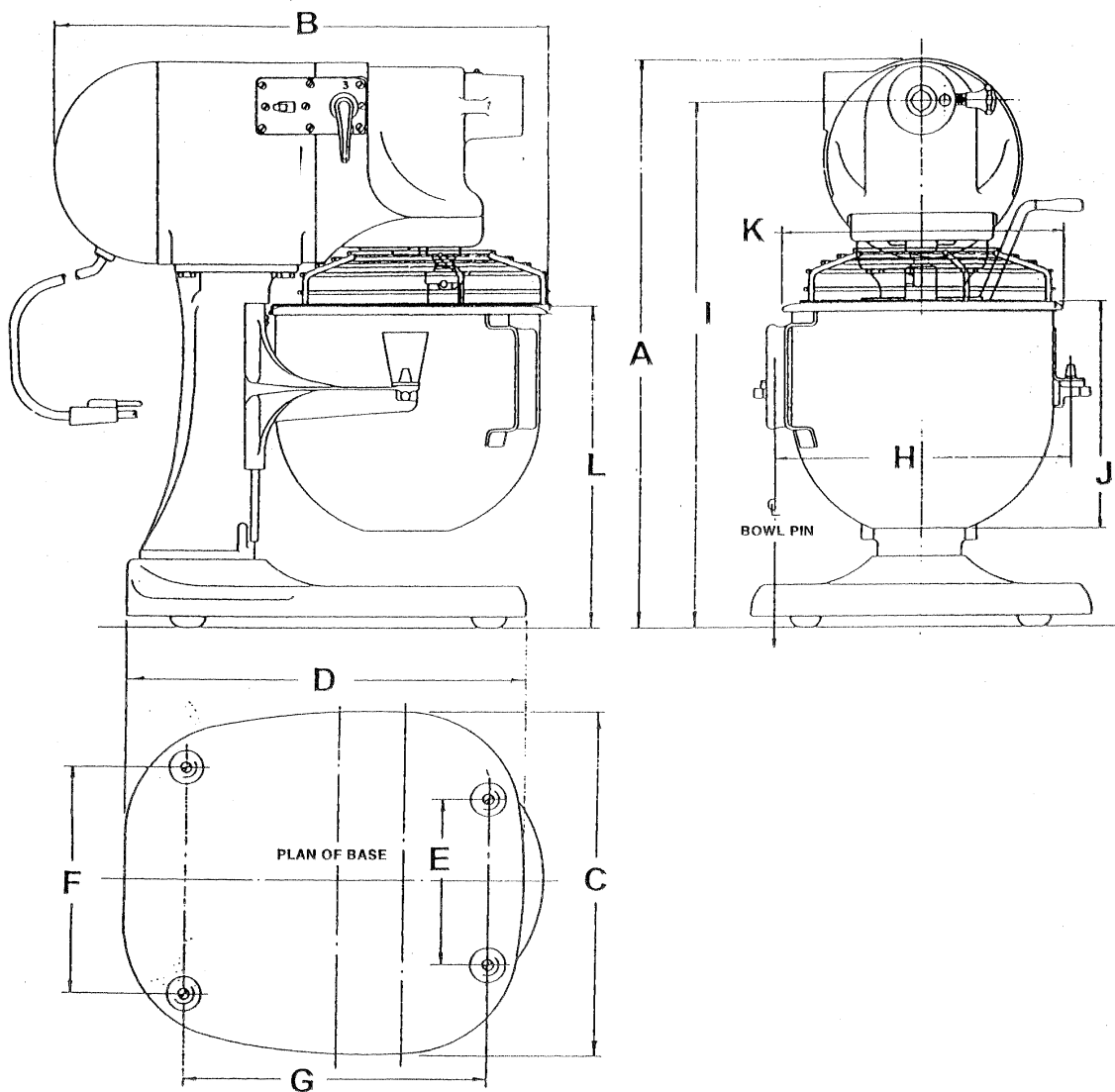
- Ensure this manual is kept in an easily accessible place for future reference near the mixer.
- All operators must be trained in the safe operation of the mixer and attachments.
- Do not remove any covers or loosen any fittings while the mixer is operating.
- Ensure the electrical supply has been isolated before attempting to service or move the mixer.
- Rotating machinery and electricity are potentially hazardous and may cause injury if sufficient precautions are not taken prior to operating or servicing the machine.
- Always have your mixer and attachments regularly serviced at least twice a year, depending on the frequency of use.
- Do not hose or pressure clean this appliance. Follow the cleaning instructions detailed in this manual.

## 2 Liability

Installations and repairs which are not carried out by **authorised technicians**, the use of non-original spare parts, or any **technical alterations** to the machine, **may affect the warranty set out in the standard conditions of sale**. Continued product improvement is an ELE policy, therefore specifications may change without notice.

## 3 General Information

The mixer is generally manufactured from die cast zinc alloy components and a steel rear cover. The machine is rated to operate on the electrical supplies shown in Table 1. The mixer is fitted with a 'no volt release' safety feature to prevent automatic re-starting after a supply failure or disconnection from the mains. The bowl support and guard are interlocked so that when either are not in their correct operating positions, the mixer will not work. The standard mixer is delivered with a guard, bowl, beater, and whisk.



Position	Dimension	Position	Dimension	Position	Dimension
A	432	E	128.5	I	398.5
B	381	F	178	J	176
C	263.5	G	236.5	K	222
D	311	H	228.5	L	247.5

All dimensions in mm.

Figure 1 : Mixer Dimensions

#### 4 Technical Information : Table 1

Description	Units	Value
Electrical supply range		230 volts, 50 Hz, single phase
Motor power	kW (HP)	0.13 (1/6)
Maximum speed of rotating part	RPM	1425
Full load current	Amps	1.7
Locked rotor current	Amps	12.5
Maximum ambient temperature	°C	40
Attachment hub drive size		Number 10
Mixer weight including agitator and bowl (empty)	Kg (lbs)	21.5 (46)
Bowl weight (empty)	Kg (lbs)	0.74 (1.6)
Noise level	dB(A)	Less than 70
Shipping weight	Kg (lbs)	25.7 (55)
Shipping dimensions (carton)	L x W x H mm	505 x 375 x 470
Storage conditions. Maximum temperature and humidity.	°C, % RH	38, 85

#### 5 Installation

There are no specific requirements for the installation of the mixer. The mixer is supplied with a mains electricity plug. Ensure the following sections are read before operation.

##### 5.1 Unpacking

Carefully unpack the machine. Do not use a sharp knife to cut into the box as damage to the machine may occur. Check for possible shipping damage. If the unit is found to be damaged, save the packaging material and contact ELE. Refer to Table 1 for mixer weights prior to lifting.

##### 5.2 Location

Select a suitable flat level counter top that can support the weight of the mixer and bowl contents when full (see Table 1 for mixer weights). The mixer stands on rubber feet and does not need to be secured to the work surface. Ensure there is sufficient space around the mixer to enable safe operation of the bowl lift handle, attachment hub, and removal/replacement of the mixing bowl. Servicing may be more difficult because of reduced clearances and you should always check that equipment specifications permit the close proximity of other equipment. Refer to Figure 1 for the overall dimensions of the mixer.

##### 5.3 Electrical Supply and Connection

The electrical installation of the mixer must be in accordance with the current edition of the IEE regulations for electrical equipment in buildings, Electricity at Work Act 1989, and must conform to the requirements of the Local Electricity Board.

The technical data shown in Table 1 details the electrical requirements for the mixer. Ensure that the electrical supply agrees with the machine specification, prior to connection.

It is recommended that the mixer is connected to a suitable external electrical isolator (see Table 1 for electrical data) fitted with a residual current device (RCD) rated at 30 mA, to provide short circuit and earth leakage protection.

The mixer is supplied with a cable and plug (which conforms to BS1363) and fitted with a 5A fuse (UK only).

#### 5.4 Safety Instructions

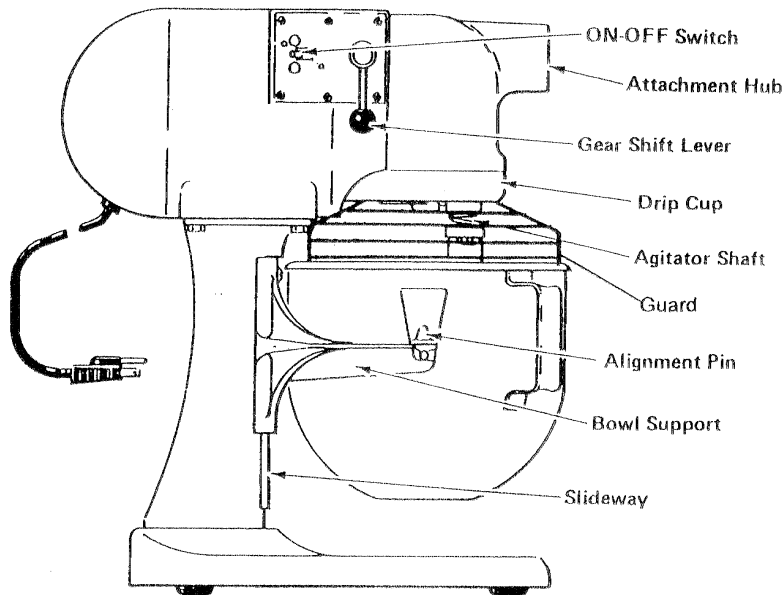
##### **THE ATTACHMENT AND/OR MIXER MUST ONLY BE USED BY A FULLY TRAINED AND COMPETENT PERSON.**

The following instructions must be observed when using the mixer:-

- Do not change speed while the mixer is operating.
- Do not wear loose clothing.
- Do not use the mixer or attachment if a fault develops or the machine is unsafe.
- Do not access rotating parts.
- Do not use excessive force when operating which could affect the stability of the mixer.
- Do not operate the mixer if parts are disassembled.
- Always use the attachment and/or mixer in a well lit area.
- Always ensure the bowl, bowl clamps, agitator, attachment and guard are correctly fitted to the machine.
- Always disconnect the mains electricity supply before cleaning.
- Always use the toggle switch 'O' to stop mixer.
- Always clean the bowl, agitators and attachments after use.
- Always clean mixer daily.
- Always service the mixer and attachments at least twice a year depending on the frequency of use.

## 6 Operation

**This machine is only for use by suitably trained persons. Ensure operators have read and understood this manual and have received adequate training.**



*Figure 2 : Mixer Component Identification*

- 6.1 Ensure the mixer is switched off.
  - 6.1.1 Ensure the guard is fitted to the hub if an attachment is not in use.
  - 6.1.2 Lower bowl support by using the bowl lift handle.
  - 6.1.3 Place the required agitator in the bowl and lift bowl onto the bowl support.
  - 6.1.4 Position the bowl by aligning the pin on the back of the bowl with the retainer situated on the bowl support. Engage the alignment pins on the bowl support into the bowl 'ears' and secure in place with the hinged bowl clamps.
  - 6.1.5 Slide the agitators onto the agitator shaft turning clockwise to engage the drive pin in the "L" slot.
  - 6.1.6 Place the guard on top of the bowl and raise the bowl using the bowl lift handle. (NOTE: An electrical interlock prevents the mixer starting if the bowl support and guard are not in the normal operating position.)
  - 6.1.7 Select the desired speed and start the machine by moving the switch to the start position "I". Note: the mixer speed must not be changed while the machine is operating. Stop the mixer before changing speed.

When mixing is complete:

- 6.1.8 Stop the mixer using the stop switch.
- 6.1.9 Lower the bowl support and remove the guard.
- 6.1.10 Remove the agitator from the agitator shaft.
- 6.1.11 Remove the bowl and agitator from the mixer to empty.
- 6.1.12 The drip cup should be removed and cleaned periodically (at least once per week depending on use) and wiped clean. Do not operate the mixer without the drip cup.

## 6.2 Using the attachment facility

### 6.2.1 Safety Instructions

The following instructions must be observed when using the mixer with attachments.

**THE ATTACHMENT AND/OR MIXER SHOULD ONLY BE USED BY A FULLY TRAINED AND COMPETENT PERSON.**

- Do not fit an attachment while the mixer is operating.
- Do not wear loose clothing.
- Do not use the mixer or attachment if a fault develops or the machine is unsafe.
- Do not access rotating parts.
- Do not use excessive force when operating which could affect the stability of the mixer.
- Do not operate the mixer if parts are disassembled.
- Always use the attachment and/or mixer in a well lit area.
- Always ensure the attachment is operating at the correct speed.
- Always ensure the bowl, bowl clamps, agitator, attachment and guard are correctly fitted to the machine.
- Always use the toggle switch 'O' to stop mixer.
- Always disconnect the mains electricity supply before cleaning.
- Always clean the attachments after use and refer to the manufacturer's cleaning instructions.
- Always service the mixer and attachments regularly; at least twice a year depending on the frequency of use.

### 6.2.2 Fitting an attachment

To install an attachment, ensure the electricity supply is isolated. Loosen the thumb screw situated on the attachment hub (see Figure 1). Swivel the hub guard to one side and insert the attachment into the hub. Ensure the square shank of the attachment locates in the square drive of the mixer. Secure the attachment by tightening the thumb screw.

## 7 Servicing and Replacement of Components

**SERVICING SHOULD BE CARRIED OUT BY A TRAINED AND COMPETENT PERSON.**

Do not remove any covers or loosen any fittings while the mixer is operating. Ensure the electrical supply has been isolated before attempting to service or move the mixer.

The motor and transmission are packed with a special grease which will last for several years.

The bowl slideways should be lubricated occasionally with a small amount of light grade oil, applied with the finger tip, to prevent corrosion and ensure smooth operation.

It is recommended that the mixer is serviced regularly, depending on the frequency of use, but at least twice yearly.



## 8 Fault Finding

Fault	Possible cause	Remedy
Machine fails to start.	Blown fuse.	Check and replace faulty fuse.
	Bowl support is not in the correct operating position.	Place bowl in up position.
	Bowl guard is not in the correct operating position.	Place guard in position.
	Speed selection lever not in correct operating position.	Set to required speed position.
	Check gear level position. If not correctly engaged, mixer will not start.	Move gear lever to desired speed.
	Check that electrical supply is switched on.	Plug in and switch on.
	Machine still fails to operate.	Call local service centre.
Motor starts but shaft fails to turn.	Gear selection lever incorrectly positioned.	Move to the correct speed.
	If planetary shaft still fails to turn.	Call local service centre.



Declaration of Conformity  
*Déclaration de Conformité*  
*Konformitätserklärung*

CE

Manufacturer	:	PMI Food Equipment Group
Fabricant	:	World Headquarters
Hersteller	:	701 Ridge Ave Troy, Ohio, USA. 45374
Machine	:	Planetary Mixer
Machine	:	<i>Batteurs-mélangeurs</i>
Maschine	:	<i>Planetenrühr- und -knetmaschinen</i>
Trade Mark	:	HOBART
Type	:	N50
Fabr. Dat.	:	2002

Herewith our confirmation, that the named machine has been manufactured and tested in accordance to the following safety regulations.

*Par la présente, nous déclarons que la machine citée ci-dessus a été fabriquée et testée en conformité avec les directives de sécurité suivantes.*

*Hiermit bestätigen wir, daß die genannte Maschine entsprechend den nachfolgend aufgeführten Sicherheitsvorschriften gefertigt und geprüft worden ist.*

89/392/EEC	- Machinery Directive	- <i>Directive Machines</i>	- <i>Maschinenrichtlinie</i>
73/23/EEC	- Low Voltage Directive	- <i>Basse Tension</i>	- <i>Niederspannungsrichtlinie</i>
89/336/EEC	- EMC Directive	- <i>Compatibilité Electromagnétique</i>	- <i>EMV- Richtlinie</i>
EN292	- Safety of Machinery		
	- <i>Sécurité des machines</i>		
	- <i>Sicherheit von Maschinen</i>		
EN454	- Planetary Mixers - Safety and hygiene requirements		
	- <i>Batteurs-mélangeurs - Prescriptions relatives à la sécurité et l'hygiène</i>		
	- <i>Planetenrühr- und -knetmaschinen- Sicherheits- und Hygieneanforderungen</i>		
prEN1672-1	- Safety and hygiene requirements - Basic concepts		
	- <i>Prescriptions relatives à la sécurité et à l'hygiène - Notions fondamentales</i>		
	- <i>Sicherheits- und Hygieneanforderungen - Allgemeine Gestaltungsleitsätze</i>		
EN60204-1	- Electrical equipment of industrial machines		
	- <i>Equipement électrique des machines</i>		
	- <i>Elektrische Ausrüstung von Industrimaschinen</i>		
EN50081	- Electromagnetic compatibility. Generic emission standard		
	- <i>Compatibilité électromagnétique - Norme générique émission</i>		
	- <i>Elektromagnetische Verträglichkeit. Fachgrundnorm Störaussendung</i>		
EN50082	- Electromagnetic compatibility. Generic immunity standard		
	- <i>Compatibilité électromagnétique - Norme générique immunité</i>		
	- <i>Elektromagnetische Verträglichkeit. Fachgrundnorm Störfestigkeit</i>		

Appointed by the manufacturer / *Agréé par le fabricant* / *Bevollmächtigter des Herstellers*

Confirmed by / *Confirmé par* / *Bestätigt durch*:  
Date / *datum* : 19 December 2001

A.P.Gentle  
Plant Manager  
*Le Directeur de l'usine*  
Fertigungsleiter

PLE200300-18 F.12.01

The Hobart Manufacturing Co Ltd, 51 The Bourne, Southgate, London N14 6RT

F-23140D

## DIRECTIVE ON WASTE ELECTRICAL & ELECTRONIC EQUIPMENT (WEEE)



Electrical equipment marked with this symbol may not be disposed of in European public disposal systems after 12 August of 2005. In conformity with European local and national regulations (EU Directive 2002/96/EC), European electrical equipment users must now return old or end-of life equipment to the Producer for disposal at no charge to the user.

**Note:** For return for recycling, please contact the equipment producer or supplier for instructions on how to return end-of-life equipment for proper disposal.

**Important document. Retain with product records.**

### GERMAN

Elektrogeräte, die mit diesem Symbol gekennzeichnet sind, dürfen in Europa nach dem 12. August 2005 nicht mehr über die öffentliche Abfallentsorgung entsorgt werden. In Übereinstimmung mit lokalen und nationalen europäischen Bestimmungen (EU-Richtlinie 2002/96/EC), müssen Benutzer von Elektrogeräten in Europa ab diesem Zeitpunkt alte bzw. zu verschrottende Geräte zur Entsorgung kostenfrei an den Hersteller zurückgeben.

**Hinweis:** Bitte wenden Sie sich an den Hersteller bzw. an den Händler, von dem Sie das Gerät bezogen haben, um Informationen zur Rückgabe des Altgeräts zur ordnungsgemäßen Entsorgung zu erhalten.

**Wichtige Informationen. Bitte zusammen mit den Produktinformationen aufbewahren.**

### FRENCH

A partir du 12 août 2005, il est interdit de mettre au rebut le matériel électrique marqué de ce symbole par les voies habituelles de déchetterie publique. Conformément à la réglementation européenne (directive UE 2002/96/EC), les utilisateurs de matériel électrique en Europe doivent désormais retourner le matériel usé ou périmé au fabricant pour élimination, sans frais pour l'utilisateur.

**Remarque :** Veuillez vous adresser au fabricant ou au fournisseur du matériel pour les instructions de retour du matériel usé ou périmé aux fins d'élimination conforme.

**Ce document est important. Conservez-le dans le dossier du produit.**

### ITALIAN

Le apparecchiature elettriche con apposto questo simbolo non possono essere smaltite nelle discariche pubbliche europee successivamente al 12 agosto 2005. In conformità alle normative europee locali e nazionali (Direttiva UE 2002/96/EC), gli utilizzatori europei di apparecchiature elettriche devono restituire al produttore le apparecchiature vecchie o a fine vita per lo smaltimento senza alcun costo a carico dell'utilizzatore.

**Nota:** Per conoscere le modalità di restituzione delle apparecchiature a fine vita da riciclare, contattare il produttore o il fornitore dell'apparecchiatura per un corretto smaltimento.

**Documento importante. Conservare con la documentazione del prodotto.**

### DANISH

Elektriske apparater, der er mærket med dette symbol, må ikke bortskaffes i europæiske offentlige affaldssystemer efter den 12. august 2005. I henhold til europæiske lokale og nationale regler (EU-direktiv 2002/96/EF) skal europæiske brugere af elektriske apparater nu returnere gamle eller udtjente apparater til producenten med henblik på bortskaffelse uden omkostninger for brugeren.

**Bemærk:** I forbindelse med returnering til genbrug skal du kontakte producenten eller leverandøren af apparatet for at få instruktioner om, hvordan udtjente apparater bortskaffes korrekt.

**Vigtigt dokument. Opbevares sammen med produktdokumenterne.**

## SWEDISH

Elektronikutrustning som är märkt med denna symbol kanske inte kan lämnas in på europeiska offentliga sopsstationer efter 2005-08-12. Enligt europeiska lokala och nationella föreskrifter (EU-direktiv 2002/96/EC) måste användare av elektronikutrustning i Europa nu återlämna gammal eller utrangerad utrustning till tillverkaren för kassering utan kostnad för användaren.

**Obs!** Om du ska återlämna utrustning för återvinning ska du kontakta tillverkaren av utrustningen eller återförsäljaren för att få anvisningar om hur du återlämnar kasserad utrustning för att den ska bortskaffas på rätt sätt.

**Viktigt dokument. Spara tillsammans med dina produktbeskrivningar.**

## SPANISH

A partir del 12 de agosto de 2005, los equipos eléctricos que lleven este símbolo no deberán ser desechados en los puntos limpios europeos. De conformidad con las normativas europeas locales y nacionales (Directiva de la UE 2002/96/EC), a partir de esa fecha, los usuarios europeos de equipos eléctricos deberán devolver los equipos usados u obsoletos al fabricante de los mismos para su reciclado, sin coste alguno para el usuario.

**Nota:** *Sírvase ponerse en contacto con el fabricante o proveedor de los equipos para solicitar instrucciones sobre cómo devolver los equipos obsoletos para su correcto reciclado.*

**Documento importante. Guardar junto con los registros de los equipos.**

## DUTCH

Elektrische apparatuur die is voorzien van dit symbool mag na 12 augustus 2005 niet meer worden afgevoerd naar Europese openbare afvalsystemen. Conform Europese lokale en nationale wetgeving (EU-richtlijn 2002/96/EC) dienen gebruikers van elektrische apparaten voortaan hun oude of afgedankte apparatuur kosteloos voor recycling of vernietiging naar de producent terug te brengen.

**Nota:** *Als u apparatuur voor recycling terugbrengt, moet u contact opnemen met de producent of leverancier voor instructies voor het terugbrengen van de afgedankte apparatuur voor een juiste verwerking.*

**Belangrijk document. Bewaar het bij de productpapieren.**

## POLISH

Sprzęt elektryczny oznaczony takim symbolem nie może być likwidowany w europejskich systemach utylizacji po dniu 12 sierpnia 2005. Zgodnie z europejskimi, lokalnymi i państwowymi przepisami prawa (Dyrektywa Unii Europejskiej 2002/96/EC), użytkownicy sprzętu elektrycznego w Europie muszą obecnie przekazywać Producentowi stary sprzęt lub sprzęt po okresie użytkowania do bezpłatnej utylizacji.

**Uwaga:** *Aby przekazać sprzęt do recyklingu, należy zwrócić się do producenta lub dostawcy sprzętu w celu uzyskania instrukcji dotyczących procedur przekazywania do utylizacji sprzętu po okresie użytkowania.*

**Ważny dokument. Zachować z dokumentacją produktu.**

## PORTUGUESE

Qualquer equipamento eléctrico que ostente este símbolo não poderá ser eliminado através dos sistemas públicos europeus de tratamento de resíduos sólidos a partir de 12 de Agosto de 2005. De acordo com as normas locais e europeias (Directiva Europeia 2002/96/EC), os utilizadores europeus de equipamentos eléctricos deverão agora devolver os seus equipamentos velhos ou em fim de vida ao produtor para o respectivo tratamento sem quaisquer custos para o utilizador.

**Nota:** *No que toca à devolução para reciclagem, por favor, contacte o produtor ou fornecedor do equipamento para instruções de devolução de equipamento em fim de vida para a sua correcta eliminação.*

**Documento importante. Mantenha junto dos registos do produto.**