



## FLOOR STRIPPER

MULE





### OWNER'S MANUAL AND PARTS BOOK



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<b>SAFETY PRECAUTIONS</b>	
	<p style="text-align: center;"><b>DANGER</b> <b>EXPLOSION HAZARD</b></p> <p>Never operate the machine in an explosive atmosphere, near combustible materials, or where ventilation does not clear exhaust fumes.</p>
	<p style="text-align: center;"><b>CAUTION</b> <b>ROTATING HAZARD</b></p> <p>Never place hands or feet inside safety guard rings. Serious injury will result from contact with rotating tooling.</p>
	<p style="text-align: center;"><b>CAUTION</b> <b>MOVING PARTS</b></p> <p>Before starting the machine, ensure that all guards and safety devices are in place and functioning properly.</p>
	<p style="text-align: center;"><b>ATTENTION</b> <b>READ OWNER'S MANUAL</b></p> <p>Read and understand owner's manual before using this machine. Failure to follow operating instructions could result in serious injury or death.</p>

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## **QUALITY ASSURANCE/ MACHINE BREAK IN**

The Contec Floor Stripper is the product of extensive engineering development designed to give long life and unmatched performance. The Floor Strippers are shipped completely assembled.

You can help ensure that your Floor Stripper will perform at top levels by observing a simple routing on first use. Consider that your new Floor Stripper is like a new car. Just as you would break in a new car to the road or any new machine to the job, you should start gradually and build up to full use. Learn what your machine can do and how it will respond. Full throttle and control may be used after this time period, as allowed by material. This will serve to further break in the machine on your specific application, as well as provide you with additional practice using the machine.

We thank you for the confidence you have placed in us by purchasing a Contec Floor Stripper and wish you many years of satisfied use.

## **WARRANTY INFORMATION**

Bartell agrees to furnish without charge, F.O.B. our plant, a replacement for any part or portion thereof, comprising the main unit of the Contec Floor Stripper, consisting of the handle, housing assembly, save and except tooling, and power units, prove upon our examination, to be defective in either material or workmanship within a period of twelve (12) months from date of purchase, provided that notice of such defective part or portion thereof is given to Bartell Ltd. within the twelve month warranty period. No further or other guarantee or warranty expressed or implied in connection with the sale of the Floor Stripper is given and our sole liability consists in replacing defective parts or portions thereof. We shall not be responsible for any special, indirect, or consequential damages arising in any manner whatsoever.

This guarantee is for the sole benefit of the original purchaser as end user. Our responsibility under this guarantee ends in the case the original purchaser transfers ownership of the Floor Stripper, makes any changes, or adds any parts or devices not of our manufacture to the Floor Stripper machine.

## SPECIFICATIONS

<b>MULE</b>	
<b>Dimensions</b>	
Working Width, mm (in)	250 (9.8)
Overall Width, mm (in)	500 (19.6)
Overall Length, mm (in)	800 (31.4)
Overall Height, mm (in)	1040-1130 (41-44.5)
<b>Weight</b>	
Weight, kg (lb)	125 (275)
<b>Removable Weight, kg (lb)</b>	83 (184)
Inboard weight	2x 20 (44)
Outboard Weight	2x 16 (36)
Handle Weight	11 (24)
<b>Power Source</b>	
Power kw (HP)	1.5 (2)
Volts (V)	110
Frequency (Hz)	60
Amperage (A)	16.4



## ROUTINE SERVICE SCHEDULE

Routine Service Intervals		Each Use	After 1.5 months or 50 hrs	Each 3 months or 100 hrs	Each 6 months or 200 hrs	Each 9 months or 300 hrs	Each 12 months or 400 hrs
<b>General Inspection</b>							
Guards	Check		○	○	○	○	○
Warning Stickers	Check		○	○	○	○	○
Test Run	Check Operation		○	○	○	○	○
Fasteners	Check Tightness	○					
<b>Electrical</b>							
Cord	Check for Damage	○					
Plug	Check for Damage	○					
Switches/Buttons	Check	○					
<b>Components</b>							
Tooling	Check Life	○					
Tooling Holder	Check for Damage	○					
<b>Motor</b>							
Fan	Check - Clean		○	○	○	○	○

## ROUTINE SERVICE INTERVALS

Due to the nature and environment of use, Floor Strippers could be exposed to severe operating conditions. Some general maintenance guidelines will extend the useful life of your machine.

- The initial service for your floor stripper should be performed after 25 hours of use, at which time your mechanic (or authorized repair shop) should complete all the recommended checks in the schedule above. The maintenance log is handy for keeping a record of the maintenance performed and the parts used for servicing your grinder.
- Regular service according to the schedule above will prolong the life of the floor stripper and prevent expensive repairs.
- Keeping your floor stripper clean and free from debris is the single most important regular maintenance operation, over and above the checks in the service schedule above, that can be performed. After each use your floor stripper should be cleaned to remove any dust and debris from the undercarriage and surrounding components.
- In the Service Schedule above, items that should be checked, replaced or adjusted are indicated by “o” in the appropriate column. For ease of recording place, a checkmark through the “o” when the item is complete. If an item is not required or not completed place an “x” through the “o” in the box.
- Failure to have your floor stripper regularly serviced and properly maintained in accordance with the manufacturer’s instructions will lead to premature failure and void the warranty.



## **OPERATING SAFETY PRECAUTIONS**

The floor strippers are constructed according to existing safety rules and regulations. These technical precautions should not be removed or changed under any circumstances. While operating the machines the following points should also be kept in mind:

**IMPORTANT:** NEVER attempt to disable or circumvent these safety devices. They are present for the operator's protection and any tampering will result in substantial risk to the operator and all present at the job site. If your compactor's safety devices have been tampered with, do not use the equipment. Immediately contact your sales representative to obtain replacement parts or return the compactor to your dealer for repairs.

The instructions provided in this manual are done so to ensure the operator's safety as well as that of others, the equipment, and the job site. Failure to follow these guidelines can lead to serious personal injury and even death. The operator and any service personnel should read and understand the entire manual before working with or servicing any Contec Floor Stripper.

- The floor stripper should always be operated with all safety covers and technical precautions.
- During transport, cleaning, repair or maintenance the floor stripper must be disconnected from the power supply. This also applies to the changing of tools.
- Always remove the tool before transporting the machine.
- Only use tools delivered by CONTEC®.
- The operator should never leave the machine unattended during operation.
- Before leaving the machine, all rotary parts should be brought to a standstill. The floor stripper must be disconnected from the power supply. Make sure that the machine cannot roll or move by itself.
- The Floor Stripper should be switched off immediately if unusual noises or vibrations are detected during the operating of the machinery. A thorough check must be carried out in order to detect the cause.
- After any maintenance and adjustment all safety covers must be reattached.
- Ear protectors must be worn.
- Eye protectors must be worn.
- Safety shoes with steel caps must be worn.
- In the event of a large amount of dust during operation, connect a dust collector to the grinder.
- Depending on the type of floor (floor coating) stripping can produce gases/dust. The operator must be held responsible if these generated gases/dusts are dangerous and if protection is necessary. Stripping floors containing asbestos is especially dangerous and can cause health problems. Special masks must be worn which keep the breathing air clean. A dust collector must be used and should be equipped with filters suitable for asbestos dust.

The floor must be swept before stripping. Anchor screws and bolts coming out of the floor can be better seen if the floor is clean. If the stripping tool strikes an anchor screw or bolt, then serious damage can be caused to the machine or grinding head.

## OPERATION INSTRUCTIONS

### SETTING UP YOUR MULE FLOOR STRIPPER

Your MULE Floor Stripper comes fully assembled with handle and motor fully installed. The handle is in the lowest position to allow for easier transportation. The handle can be adjusted to suit the operator by loosening the 2 screws at the base of the handle and retightening to set position. Tooling can now be installed, and your Floor stripper is ready for use.

### PRIOR TO OPERATION

- Make sure that all dust, debris etc., are thoroughly removed from the unit prior to operation. Special effort should be given to the bottom of the machine where the tooling is located, as well as the drive wheels and motor.
- Check all bolts and screws for tightness and make sure all bolts and screws are securely tightened. Loose bolts and screws may cause damage to the unit. Make sure tooling is properly installed.

### CHANGING OR INSTALLING TOOLING

- Lock the centre weights into position 1 (See below “Adjusting the Weights”)
- Tip the machine until it rests in a stable position
- Clean and loosen the bolts of the blade mounting
- Replace the blade.
- Make sure that the blade fits exactly into the support. On normal and hard subfloors, the bevel of the blade should show upwards (B). On soft subfloors the bevel should show downwards (A).

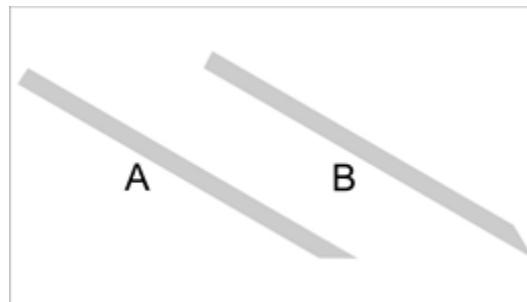


Figure 1: Blade orientation

- Tighten the bolts of the blade mounting again

**ATTENTION:** Before working on the floor stripper bring the motor to a total stand still and disconnect from the power supply.

**CAUTION:** Tooling is sharp, set wrench in position opposite to blade to avoid injury

### ADJUSTING THE WEIGHTS

The two centre weights can be locked in three different positions. The locking bolt is situated on the right-hand side outside the weight. The bolt must be pulled out before changing the position.

Pos. 1: the weight is mostly on the rear traction wheels. The wheels will have increased traction and drive is increased.

Pos. 2: The weight is in the middle position and creates an option to transport machine with a crane.

Pos. 3: The weight is mostly on the tool. The tools will be less likely to jump up and slide on top of the material trying to be removed.

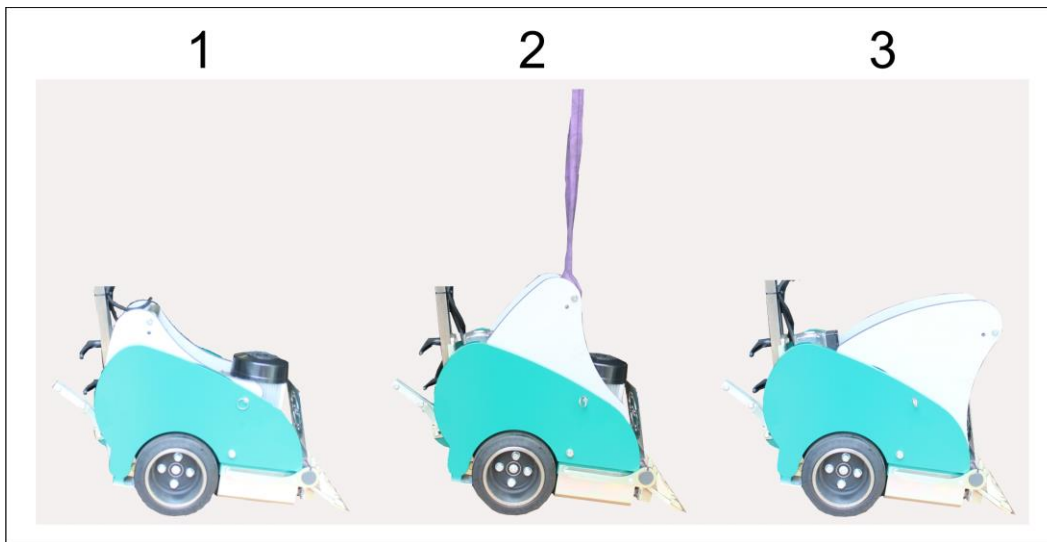


Figure 2: Weight positioning

## **OPERATION**

### ***Operating***

The Mule-Stripper removes any bonded floor covering by using a vibrating knife. The knife is driven by an electric motor.

The drive unit is powered by a separate motor.

The blade drive starts as soon as the machine is switched on and can easily be switched off by pressing the emergency stop switch or the red OFF switch. The drive unit motor starts by pressing the safety switch on the handle bar. If the handle bar is pushed forward the drive unit starts to work, and the machine starts to move. The drive can be locked in the moving position by stepping on the foot lever at the bottom of the handle bar.

The Mule-Stripper is equipped with a power-on indicator lamp. If the lamp does not indicate power-on, use another power socket or check power supply.  
If a supply power failure occurs during operation, switch the machine on again.

### ***Preparations (Carpets, Coverings)***

Before starting work, cut the floor covering into strips of about 35 cm (12 inch). You cannot work faster if you cut wider strips.

To begin, cut one strip crosswise. Then lift the floor covering slightly in order to get the blade underneath it. We recommend that you cut the first strip at right angles to the main working direction. By so doing access to the adjacent strips is made easier.

Cut the strips smaller if the floor covering is bonded very securely, e.g. with an epoxy adhesive. The blades are sharpened by the floor pavement. Therefore, the blade only has to be changed if it is twisted, rounded or becomes worn.

The driving wheels are subject to wear. They must be changed when necessary.



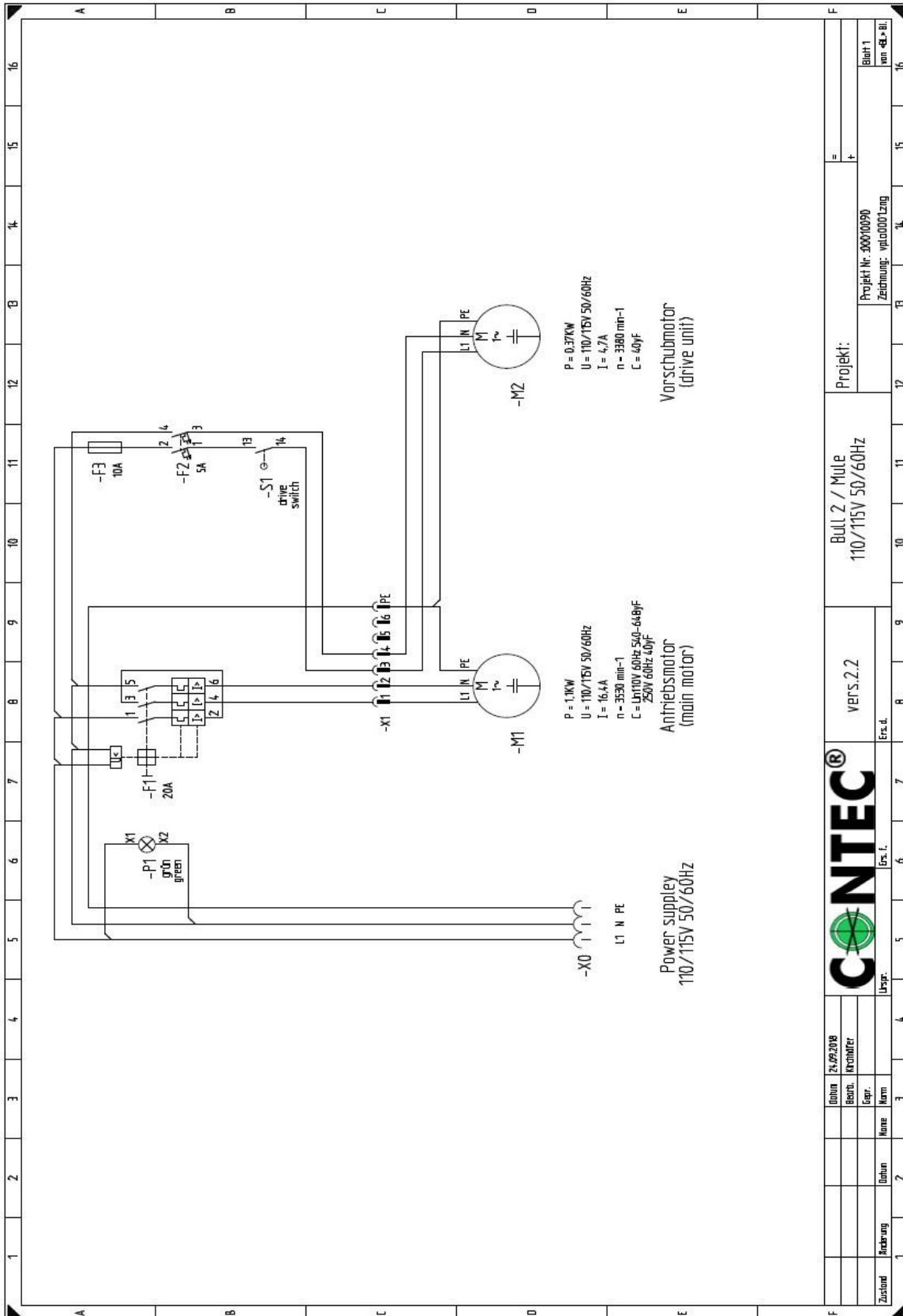
**MULE MAIN ASSEMBLY – PARTS LIST**

Item #	Part #	Description	QTY	Remarks
1	87612020161	LINEAR BEARING HOUSING	2	
2	8755030216	MOTOR	1	
3	8727104300	MAIN BEARING HOUSING	1	
4	8727104400	FENDER MOTOR	1	
5	87612020162	LINEAR-BEARING	4	
6	8727103000	MAIN PLATE	1	
7	8727101708	BLADE HOLDER ADJUSTABLE	1	
8	8727103902	BLADE BRACKET ADJUSTABLE	1	
9	8727103903	BRACKET FOR BLADE ADJUSTABLE	1	
11	8727101609	ROD AXIS	1	
13	8727104102	ROD BEARING WASHER	1	
15	8727104301	ECCENTRIC DRIVE SHAFT	1	
16	876160082ZC3	BEARING	2	
17	876160102ZC3	BEARING	1	
18	8761210130	GREASE NIPPLE	2	
19	8727101604	CONNECTING ROD	1	
20	8784833080	SLIDE BUSHING 20MM	2	
21	8727104200	WHEEL AXIS	1	
22	8784832315	SLIDE BUSHING 15MM	2	
23	8780203200	REAR WHEEL	2	
24	87612020163	SEALING	4	
30	8770261800	BRACKET FOR RUBBER BLOCK	2	
31	8727100603	SQUARE BRACKET	2	
32	8770261850	RUBBER BLOCK	2	
33	8727100600	MOTOR MOUNTING PLATE	1	
35	8750202041G	GEARBOX	1	
37	8750212341	DRIVE UNIT MOTOR	1	
38	8750212241	CAPACITOR	1	
39	8727101606	WHEEL ON DRIVE MOTOR	2	
41	8727100700	HANDLE BRACKET	1	
42	87GN6049510I	CLAMPING LEVER	2	
43	8727103500	HANDLE	1	
44	8730100304	DRIVE UNIT LEVER ALLOY	1	
45	8750201002	DRIVE UNIT SWITCH HEAD	1	
46	8750201001	DRIVE UNIT SWITCH COMPLETE	1	
47	8727103600	HANDLE COVER	1	
48	8770212610	RUBBER GRIP	2	
49	8750201056	SWITCH	1	
50	8727100900	BRACKET FOR DRIVE ADJUSTMENT	1	
51	8727100900	SPACER DRIVE ADJUSTMENT	2	
53	8727100802	BEARING	1	
55	8761206002	DRIVE ADJUSTMENT LEVER	2	

57	8727100800	DRIVE ADJUSTMENT LAVER	1	
67	8727103204	CONNECTION BRACKET	1	
69	87212313	PLUG HOUSING	1	
71	87502020131	PLUG PIN MOUNTING	1	
73	87502020121	JACK IN THE HOUSING	1	
75	8750202013	SOCKET HOUSING	1	
81	8727101111	ROD PIN BRACKET	1	
85	8727104302	SPACER BEARING HOUSING	1	
89	8761411050	TENSION SPRING	1	
91	8705421812	HOSE CLAMP	1	
101	8727103200	WEIGHT OUTSIDE LEFT	1	
102	8727103205	WEIGHT OUTSIDE RIGHT	1	
103	8727103300	INNER WEIGHT LEFT	1	
104	8727103305	INNER WEIGHT RIGHT	1	
105	8727103400	WEIGHT CONNECTOR	1	
107	8727104000	SCRAPER	2	
108	8727103701	DISTANCE RING REAR WHEEL	2	
111	8790200069	SNAP PIN	3	
113	87GN1112014B	CHAIN FOR PIN	1	
131	8750212241	CAPACITOR	1	
137	8790200024	STRAIN RELIEF	1	



## ELECTRICAL DIAGRAM



Zustand		Urspr.		Ers. I.		Ers. d.		VERS. 2.2		BULL. 2 / MULE 110/115V 50/60Hz		Projekt: Projekt Nr.: 300010090 Zeichnung: vpl0001.zwg		Blatt 1 von 4 Bl.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16



## **DECLARATION OF CONFORMITY**

Declaration of Conformity / Certificat de conformité / Gelijkvormigheids certificaat Declaración de Conformidad/Declaração de Conformidade/Dichiarazione Di Conformita

We:	Bartell Morrison Inc. 375 Annagem Blvd. Mississauga, Ontario, Canada L5T 3A7 Tel: 647-953-4100 Fax: 647-953-4101	Bartell Morrison (USA) LLC. 200 Commerce Drive, Unit A Freehold, New Jersey, United States of America 07735 Tel: 848-225-8100 Fax: 848-225-8101
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Declare under our sole responsibility that the product to which this declaration relates is in conformity with the following standard(s) or other normative documents.

Déclarons sous notre responsabilité que le produit cette déclaration est conforme aux normes suivantes ou d'autres documents habituels.

Verklaren onder onze verantwoordelijkheid dat het product naar welke de verklaring verwijst conform de volgende standaards of anders gebruikelijke documenten is.

Declaramos bajo nuestra única responsabilidad que el producto en lo que esta declaración concierne, es conforme con la siguiente normativa u otros documentos.

Declara sob sua responsabilidade que o produto a quem esta declaração interessar, está em conformidade com os seguintes documentos legais ou normas directivas.

Dichiariamo sotto la ns. unica responsabilità che il prodotto al quale questa dichiarazione si riferisce, è fabbricato in conformità ai seguenti standard e documenti di normative.

EN 349:1993	Safety of Machinery - Minimum gaps to avoid crushing of parts of the human body.
EN 418:1993	Safety of Machinery - Emergency stop equipment, functional aspects - Principles for design
EN 12100-1:2003	Safety of Machinery - Basic Concepts, general principles for design - Part 1: Basic Terminology, methodology
EN 12100-2:2003	Safety of Machinery - Basic Concepts, general principles for design - Part 2: Technical Principles
EN ISO 4872:1978	Acoustics - Measurement of Airborne noise emitted by construction equipment intended for outdoor use - Method for determining compliance with noise limits.
EN ISO 5349-1:2001	Mechanical vibration. Measurement and evaluation of human exposure to hand-transmitted vibration. General requirements
EN ISO 5349-2:2001	Mechanical vibration. Measurement and assessment of human exposure to hand-transmitted vibration. Practical guidance for measurement at the workplace.

Following the provisions of Directive(s):

Suivant les directive(s) déterminées:

Volgens de vastgestelde richtlijnen:

Siguiendo las directiva(s):

No seguimento das clausulas da Directiva(s):

Seguendo quanto indicato dalla Direttiva(s):

98/37/EC	Machinery Directive
2000/14/EC	Noise Directive
2001/95/EC	General Product Safety Directive
2002/95/EC	Reduction of Hazardous Waste Directive

NORTH AMERICA

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