

# INFACO<sup>®</sup>



TYING MACHINE

## A3MV2-48V

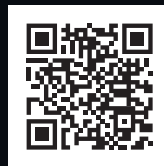


ORIGINE  
**FRANCE<sup>®</sup>**  
GARANTIE

BVcert.6152145

OTHER LANGUAGES

ORIGINAL USER GUIDE - EN





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# PRECAUTIONS BEFORE USE



**WARNING.** Read all the safety warnings and all the instructions. Failing to heed warnings and follow instructions may lead to an electric shock, a fire and/or serious injury.

**Keep all warnings and instructions for future reference.** The term “tools” in the warnings refers to your battery powered electric tool (with power cord), or your tool operating on a battery (without power cord).

# PROTECTION OF THE ENVIRONMENT



Observe all country-specific waste disposal rules and regulations.

- > Power tools must not be disposed of with household refuse.
- > The device, accessories and packaging must be taken to a recycling centre.
- > Ask the approved INFACO dealer for up-to-date information on the eco-compatible elimination of waste.



# BOX CONTENTS

Tying machine **A3MV2-12v**  
Grease spray  
Tying head unlocking key  
Tool carry bag  
Pincers  
User guide



# GENERAL PRODUCT VIEW



# SPECIFICATIONS

	A3MV2 - 48 V
Rated power supply	48V
Weight of the machine alone	650 g
Battery autonomy	12 500 attachments
Charging time	1h30
Opening diameter	30 mm
Available wire diameter	0,40 - 0,46 - 0,50 - 0,55 mm

*These specifications are given as an indication only. Under no circumstances may they be considered as contractually binding. They are subject to modification without prior notice in the interests of product development.*

*Patented equipment*

# USER GUIDE

## First use

The first time you use the equipment, we strongly recommend you to ask the advice of your dealer, who is qualified to give you all the advice you need for correct use and good output. **It is imperative to carefully read the tool and accessory user manuals before handling or powering up the tool.**

It will take a day's use to acquire a sound knowledge of how to operate the machine.

**Battery:** Before using the equipment for the first time and/or following wintering, fully charge the battery (see charging procedure on page 13).



The F3015 Lithium battery **MUST** be recharged using the INFACO Lithium charger (Ref.:841C1/841C2). It is prohibited to use a different charger as this may lead to a serious electrical accident.

## Carrying the Equipment

1. Remove the battery, the battery-holder belt, the suspenders, the holster and the power cord from the case.
2. Fit the battery onto the battery-holder belt. To do this, slip straps through the battery tabs. Place the holster on the left or right strap on the battery-holder belt.
3. Slip the power cord through the left or right eye-hole provided in the battery-holder belt.
4. Fix the battery-holder belt to your waist, the battery must be located in the lumbar region.

When using suspenders, fix them to the battery-holder belt and adjust them to your size by pulling on the straps.



In wet weather, it is imperative to carry the battery under waterproof clothing to keep the battery unit protected from the rain.

## Switching on



The tying head should be in the working position before switching on.



Connect the battery to the machine supply cable.



The machine is switched on.

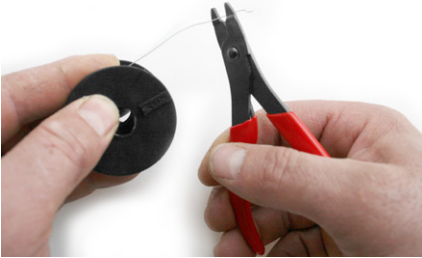
- Short pressure on the switch will control only the wire cutting function.
- Sustained pressure will launch the complete tying cycle (See chapter "Making a tie" P. 11).

## Loading the reel

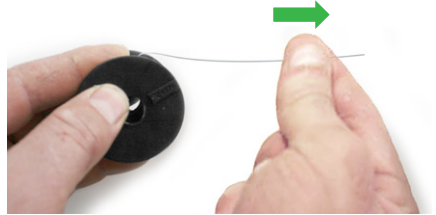


The wire needs to be prepared to make it easier to feed through the machine.

- 1 Cut the end to obtain a wire with no bends in it.



- 2 Smooth the wire for at least 40 cm.



- 3 Clip the lever upwards.



- 4 Clip the reel on to the machine between cheeks.





**5 Insert the wire into hole.**

If you come up against an obstacle during insertion, move the wire gently backwards and forwards and/or press once or twice the control switch to pivot the tying head and to keep the wire moving through the machine.



**6 Keep on feeding the wire through until it emerges from the tying head.**

If the wire still doesn't come out: we recommend that you disconnect the tying head (see chapter "Operating problems" P17), check that the wire isn't stuck and try to insert it with the head removed.



**7 Unclip the brake system lever.**

At the start of each reel, check that the wire is properly rolled and doesn't stick between cheeks.



**8 Switch the machine on and press briefly on the control switch to cut the excess wire.**

You can now start tying operations.

## Removing the reel

- **Reel with remaining wire**

Clip lever upwards to allow the wire free movement through the passage.



Pull the reel to unclip it from the machine.



- **Empty reel**

Pull directly on the reel to unclip it from the machine.



Carry out a visual check on wire exit to ensure that there is no wire remaining in the machine.

After the last tying operation it is possible that some wire may remain stuck in the tying head:

- If it does not prevent you from loading another reel, carry on working. It will come out during tying, usually without a problem.
- If it does prevent you from feeding a new wire through, disconnect the head and remove the remaining wire by hand (see chapter "Operating problems" P 17).



# USE

## Making a tie



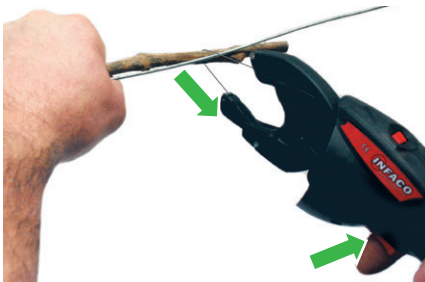
- 1 Hold the end of the branch and the trellising wire firmly in your free hand and bring the A3MV2 closer.

**Position the tying head just before the last node on the branch.**



- 2 Firmly place **the branch + the trellising wire** inside the tying head.

**Go right up to the abutment** to ensure that the arm closes fully and attaches the wire correctly.



- 3 Move the machine back firmly to release the tying head: the wire then wraps round the branch. Press control switch to complete the tie.

The knot is made more or less tight depending on how far you pull back the machine (see next chapter).



- 4 The tie holds the branch on the trellising wire.

# Tightening the knot

## Position 1 = tight knot.

Pull the machine back approximately 1 to 2 cm, then press the control switch.



## Position 2 = loose knot.

Pull the machine back approximately 3 to 4 cm, then press the control switch.



# Adjusting the number of turns

To vary the number of turns, move the wheel to the right or left

Adjustments vary from 3 to 6 turns. The number of twists increases the holding power of the tie. **The standard knot adjustment is 4 twists.**

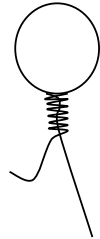
Ask your retailer to help you choose the best compromise to suit your region, the type of wire you are using and the tying method.



twist 3 turns



twist 6 turns



# RECHARGING THE BATTERY

The battery has sufficient autonomy to complete between **12 500 ties**.

If you are thinking of doing more than 8000 ties a day, we advise you to either **recharge the battery for at least an hour** during your lunch break to achieve extra autonomy of approximately **10 000 ties**.

N.B. a few minutes before your battery is completely discharged, the A3MV2 may lose speed or no longer cut the wire.



Charger



Battery



A3MV2 - 48 V

## Using the charger

To charge your battery, plug in the charger in a well ventilated area which is free from inflammable products and other sources of combustible materials. The area must be at a temperature between 10°C and 25°C and be sheltered from damp conditions.



1. Connect one end of the power cord to the charger.



2. Connect the other end of the power cord to the mains outlet.



3. When powered on, the charger initialises: Green LED + Red LED light for 2 seconds.



4. When the LEDs turn off, the charger is ready for use.

## Charging the battery



It is strictly forbidden to charge the batteries when the temperature in the room is below 0°C or higher than 40°C.

When charging, the battery must not be covered and not be close to a heat source.



1. Place the battery on channel 1 of the charger.



C.1 ● ● ● ● ●

2. Once the battery is in place, the charger detects it and begins charging:

**Channel 1:** Green LED flashes quickly throughout the charge.



C.1 ●

3. Battery charge completion:

The time needed to fully charge an 831B battery is about one and a half hours.

**Channel 1:** Green LED on (not flashing).

# Charging a second battery

A second battery can be placed on the charger:



1. Place the battery on channel 2 of the charger.



2. If the battery on channel 1 is charging, the battery on channel 2 switches to a waiting charge status:

**Channel 1:** Green LED flashes quickly throughout the charge.  
**Channel 2:** Green LED flashes slowly throughout the wait.



3. Once the battery on channel 1 is fully charged, the battery on channel 2 begins charging:

**Channel 1:** Green LED on and not flashing (battery charged).  
**Channel 2:** Green LED flashes quickly throughout the charge.



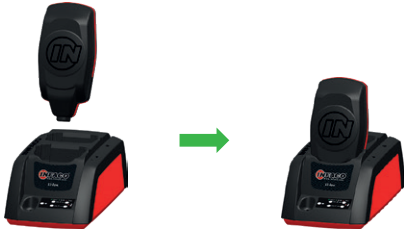
4. The two batteries are charged:

**Channel 1:** Green LED on (stops flashing).  
**Channel 2:** Green LED on (stops flashing).

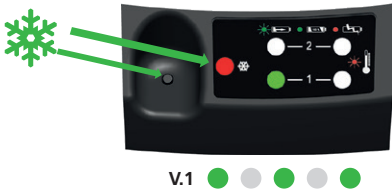
# Storing the battery / Putting the battery to Sleep Mode or Winter Mode



To keep your batteries in good condition (at the end of every pruning season or when not used for more than 1 month) the following process must be applied (this process can take up to 10 hours per battery):



**1.** Place the battery (or batteries) on the charge:  
NOTE: If there are two batteries on the charger, the sleep mode will be carried out on both batteries, one after the other.



**2.** Press the SLEEP button to begin the process. The LED switches to red (not flashing) and the charging LED flashes green.

NOTE: If there are two batteries on the charger, the sleep mode will be carried out on both batteries, one after the other.



**3.** SLEEP MODE complete:  
The charger's LED stays red (not flashing).  
Channel1's LED (and channel 2's if there are 2 batteries) stays green (not flashing).

The battery must be removed from the charger and stored in the case.

Wintering mode is disabled when the mains plug is disconnected from the chargers.



## Forgetting to put your Batteries in Sleep Mode



If the sleep process has not been followed correctly there may be a loss of autonomy in future uses of the battery. To remedy this situation, leave the battery on charge for between 12 and 72 hours (for extreme cases of incorrect storage that cause an imbalance).

Full autonomy can also be recovered over several daily charges that can be spread over the first week of work. To do this, make sure the battery remains on the charger every night during the first week of work.

Reminder: Putting the battery to sleep mode eliminates any risk of battery imbalance (see page 16).

## Battery storage instructions

Store the battery and the charger in a well ventilated area, free from inflammable products or heat sources, and keep out of reach of children.

Do not store empty batteries. If the battery is very flat it will no longer charge and will be considered to be out of service.

Do not store the battery without carrying out the Sleep / Winter mode process.

Do not store batteries that are out of service, return them to your approved INFACO dealer.

Do not store batteries when they are connected to the charger or to a tool.

Do not store the charger connected to the mains power supply.



All failures to follow the storage and safety instructions will result in the manufacturer's guarantee being voided.



There is a fire hazard if the product suffers damage (impacts, being dropped, exposure to high temperatures, etc.).



According to the 2002/96/EC standard, do not dispose of the battery with household waste, do not burn it or dispose of it in water. Do not open the battery.

Return the battery to an approved INFACO dealer.



Used or defective batteries must be recycled according to the 91/157/EEC directive.

# **SERVICING AND MAINTENANCE**

## **Daily maintenance**

### **Lubricate at least twice a day :**

- in the morning before you start work
- at midday

Lubricate at the points shown below:



**The following tasks should be carried out with the machine disconnected.**

- **Lubricate to restrict wear**

Spray the end of the head on the blade side.



Spray the end of the head on the wire-pinching side.



Spray inside the head.



Spray beneath the metal ring.



- **Lubricate to make your work easier**

Spray the point of contact between the reel and the cheeks



Spray directly on to the wire on the reel, once or twice per reel, to help the wire to slide more easily as it moves round the reel.

We strongly recommend doing this when the wire becomes unpleasantly difficult to pull on during the typing operation



## Annual maintenance

**During the off-season, recharge your battery at least once every two months** and store your machine in a dry place at a temperature of **between 10° C and 25° C maximum**.

We strongly recommend that you carry out our suggested **servicing routine** every year. This will allow you to start off the following season comfortably and in complete safety.

# OPERATING PROBLEMS



These tasks should be carried out with the machine disconnected.

## The loop no longer forms during the tying operation

1. A piece of wire may be stuck in the wire pincher **1** :

To release it, press pin **2** in the circular orifice with your fingernail or using the supplied pliers.



2. The wire may be bent at exit **3** : (no need to disconnect the machine)

Simply go through the cycle empty or run the knife only and resume the tying action.



3. The wire is jammed

Try first of all to take hold of the wire at the back of the machine and push it forwards.

- If the wire emerges switch the machine back on.

Press control switch to carry out a short cut, then resume tying operations.



- If the wire does not emerge, pull it right out of the machine.

To do this: unclip lever.

Remove the wire; it may be jammed because of a bend, in which case you will need to pull firmly to remove it.

Then straighten the wire so that it threads smoothly.



Thread the wire through until it emerges. Switch the machine back on and press control switch to carry out a short cut.

Unclip lever and resume tying operations.



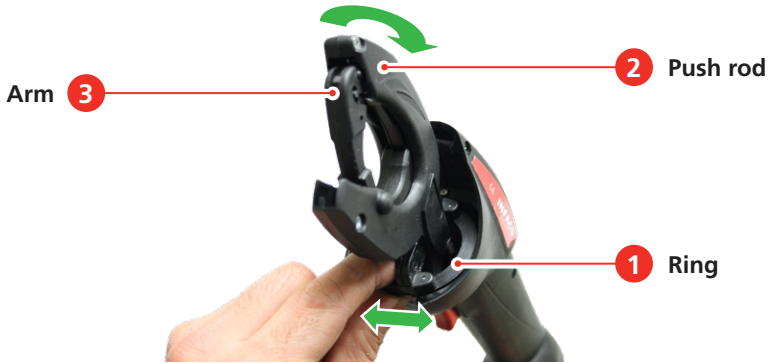
## The machine no longer operates, the tying head is stuck

Push rod **1**, which hits against ring **2** when the wire is cut, sometimes goes out of its trajectory and become stuck on the outer edge of ring.

The arm **3** often remains locked and can't open completely. **Do not try to force arm open as you may damage the mechanism.**

Bring tying head in to a central working position, following the arrow below. Then take hold of ring and move it forwards and backwards until the push rod returns to its position beneath ring.

**It is normal for the tying head to resist and make you force it to bring it back into its operating position.**



Ring is released when the push rod has returned to its initial position. The arm must be fully open. Check that the tying head can turn freely again.

You can then switch the machine back on and resume tying operations.



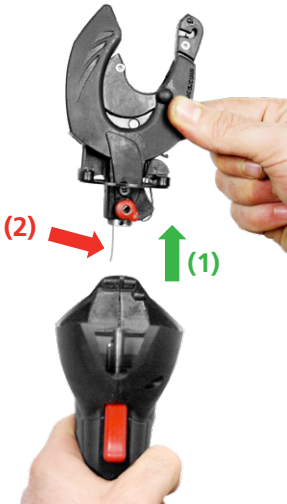
# At the end of the reel, some wire is stuck in the tying head

- 1 Pivot tying head 90° to gain access to screw.



- 2 Use key (provided in the case) to loosen screw by approximately 4 or 5 turns.

To avoid the risk of losing screw, we recommend that you do not unscrew it completely.



- 3 Take hold of tying head 01 and pull it to remove it from the body of the machine. (1).

Once you have disconnected the tying head, remove the end-of-reel wire 01 from the tying head (2).

You can also take the opportunity to insert the new wire, as it will be easier to thread through.

4 Before you put the head back on, we recommend lubricating the shaft with guide pin.



5 Put the tying head back on, positioning guide pin opposite its housing. Then tighten screw to complete the operation.



Repeat the steps 1 and 2 in reverse order.

The operation is finished.



# SAFETY INSTRUCTIONS

CAUTION. To reduce the risk of electric shock, injury, and fire when using power tools, observe the following basic safety precautions. Read and follow these instructions before using the tool and retain these safety instructions!

When not in use, your tool and accessories should be unplugged and stored in their respective packaging.



Your tool must be disconnected from all power sources for the following operations:

- **Maintenance.**
- **Recharging the battery (never leave your battery on a trickle charge for more than 15 hours).**
- **Maintenance.**
- **Transport.**
- **Storage.**

When the tool is in use, always remember to keep your hands away from the head of the accessory. Do not work with the tool if you are tired or not feeling well. Wear the safety equipment specifically recommended on each accessory. Do not leave the tool within the reach of children or visitors.



Do not use the machine if there is a risk of fire or explosion, e.g. the presence of inflammable liquids or gases.

Never carry the charger by the cable or pull on it to disconnect it from the socket.



Never carry the charger by its cable. Keep the cable away from heat, oil and cutting edges.

Never use the machine at night or in poor light without setting up extra lighting. When using the machine, keep both feet firmly on the ground and stay as well balanced as possible.

This machine does not cause vibrations or jerks.

Do not leave the machine on the ground and do not leave it exposed to bad weather.



If the supply cable on your charger is damaged, have it changed by the INFACO factory or an approved A3M retailer.

# GUARANTEE CONDITIONS

A3M machines are guaranteed for one year against all faults and manufacturing defects. The guarantee is not valid unless the guarantee card has been duly filled in and returned to the address printed on it.

If the guarantee card has not been returned at the time of the guarantee request, the ex-works departure date will be used to determine the guarantee period.

INFACO may not be held liable for any machines sold by distributors more than a year after they have left the factory.

This guarantee covers normal usage of the machine and does not cover:

- **damage caused by poor maintenance or a lack of maintenance,**
- **damage caused by incorrect usage,**
- **damage caused by normal wear and tear,**
- **machines that have been dismantled by unauthorised repairers,**
- **outside agents (fire, flood, lightning, etc...),**
- **impacts and their consequences,**
- **machines for which the guarantee card has not been returned at the time of purchase,**
- **machines used with a battery or charger other than an A3M brand.**

In no circumstances will the guarantee give rise to compensation for the fact that the machine is immobilised while it is being repaired. Repair or replacement during the guarantee period does not give the right to an extension or renewal of the initial guarantee.

The guarantee covers factory labour costs (on the condition that the machine has always been serviced) but does not necessarily apply to retailer labour costs.

The guarantee on the machine will no longer be valid if the machine has been worked on by anyone other than an approved A3M agent.

We strongly recommend that, in the event of a breakdown, users of A3M equipment should contact the retailer who sold the machine or our after-sales department on (+33) 05 63 33 91 49.

To avoid disputes, please note the following procedure :

- **for equipment covered by the guarantee, please send it to us carriage paid and we will return it at our expense,**
- **for equipment not covered by the guarantee, but which has been serviced during the previous off-season, please send it to us carriage paid and we will return it at our expense,**
- **for equipment not covered by the guarantee, and which has not been serviced during the previous off-season, please send it to us carriage paid and we will return it at your expense, cash on delivery. We will send you an estimate if the cost of the repair is more than 80 € ex-VAT,**

# SERVICING

We offer a servicing package for an inclusive fee at **the end of each season**.

You may choose to extend your guarantee over the first 2 seasons.

N.B. to take advantage of the guarantee extension over the first 2 seasons: you must opt for the servicing package from **the end of the first season** (servicing carried out between April and late July).

If the service is not carried out during the first season after you have purchased your machine, the guarantee extension will be cancelled.

# TYING METHOD

## Branch wound with lifting wire:

If the branch **is wound all the way to its tip**, the 0.40 tie may be used in regions that are not too windy, as long as the wires are lifted quite early.

For regions where there is a risk of strong winds, use only 0.50.

Number of ties: 1 to 2  
Ø wire: 0,40 or 0,46 or 0,50



## Branch wound without lifting wire:

N.B. for vines with no lifter, the tie can only be guaranteed to hold if **the branch is wound all the way to its tip** and attached with 2 ties at an interval of approximately 3 to 5 cm.

Not recommended for regions where there is a risk of strong winds, not guaranteed to hold.

Number of ties: minimum 2  
Ø wire: 0,50



### Branch unwound with lifting wire:

For short branches, 2 x 0.50 ties at the end of the branch. For long branches, it **is essential** to place 1 x 0.50 tie loosely at the start of the branch (to allow the branch to grow) and 1 x 0.50 tie attached tightly at the end of the branch.

Not recommended for regions where there is a risk of strong winds, not guaranteed to hold.

Number of ties: minimum 2  
Ø wire: 0,50



### Branch unwound without lifting wire:

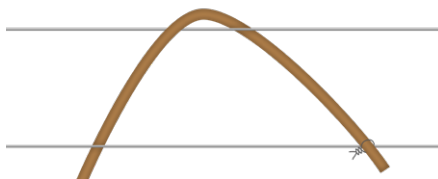
Not recommended, not guaranteed to hold.



### Branch bowed with or without lifting wire:

The tie on the end of the branch must be tight, as there is not a bud after the tie. If a tie is added at the beginning of the branch, this should not be tightened to allow the wood to grow properly.

Number of ties: 1 or 2  
Ø wire: 0,50



### Cordon Royat with lifting wire:

Attach to the ends (with no buds after the tie ). Contact us for advice about young vines.

Number of ties: 2  
Ø wire: 0,50



### Cordon Royat without lifting wire:

Not recommended, not guaranteed to hold.



# DEALER PART

Part to be kept by the dealer.

Serial number > ..... Ref > .....

Surname > .....

First Name > .....

Company name > .....

Full address > .....

.....

Town/city > .....

Postcode > .....

Phone number > .....

Purchase date > ..... / ..... / .....

Comments > .....

customer signature

# ADDITIONAL PART

To validate the warranty, **REGISTER IMMEDIATELY ONLINE ON:**

[www.infaco.com](http://www.infaco.com), your warranty declaration or send this form filled out **IN BLOCK CAPITALS AS SOON AS THE TOOL IS PURCHASED.**

Surname > ..... First name > .....

Company name > .....

Full address > .....

.....

Town/city > ..... Postcode > .....

Phone number > .....

*Arboriculture*

*Oil growing*

Email > .....

*Wine growing*

*Parks and gardens*

Purchase date > ..... / ..... / .....

Serial number v - Ref > .....

--	--	--	--	--	--	--	--

Comments > .....

Dealer's stamp

Dealer

--	--	--	--	--	--	--	--

# SERIAL NUMBER

to be kept  
by the dealer  
for the INFACO customer file  
INFACO:



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# EQUIPMENT MANUFACTURED IN FRANCE



Manufacturer > *INFACO S.A.S. - 81140 CAHUZAC-SUR-VÈRE (FRANCE)*

Type > *Tying Machine A3M*

Ref > *A3MV2-48V*

## TECHNICAL INFORMATION OR AFTER-SALES

INFACO S.A.S.

Bois de Roziès

81140 CAHUZAC-SUR VÈRE France

*Phone:* (+33) 05 63 33 91 49 - *Fax:* (+33) 05 63 33 95 57

*Email:* [contact@infaco.fr](mailto:contact@infaco.fr)

Technical videos available on the website: [www.infaco.com](http://www.infaco.com)







# DECLARATION OF CONFORMITY (CE)

## CE-KONFORMITÄTSERKLÄRUNG / DECLARAÇÃO DE CONFORMIDADE CE

**INFACO S.A.S. declares that the new equipment designated below:**

*INFACO s.a.s. erklärt, dass das neu entwickelte, nachstehend erläuterte Gerät:*

*A INFACO S.A.S. declara que o material novo designado em seguida:*

### Electric device INFACO

*Elektrowerkzeuge von INFACO / Aparelho elétrico INFACO*

**Brand name > INFACO**

*Marke // De marca*

**Model > A3MV2-48V**

*Modell // modelo*

**Serial no >**

*Seriennummer // N° de série*

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**Year of manufacture >**

*Herstellungsjahr // Ano de fabrico*

### Complies with the provisions of the directives for:

*Cumple con las disposiciones de las directivas : // Está em conformidade com as disposições das directivas:*

- Appliances" (directive 2006/42/CEE).  
*Maschinenrichtlinie (Direktive 2006/42/CEE). // "Máquinas" (diretiva 2006/42/CEE).*
- Directive 200/14/EC « on the noise emission by equipment for use outdoors » (order of 18 march 2002) modified by the directive 2005/88/EC (order of 22 may 2006).  
*„Geräuschemissionen von im Freien verwendeten Maschinen“ Richtlinie 2000/14/CE (Verordnung vom 18. März 2002) geändert durch 2005/88/CE (Verordnung vom 22. Mai 2006).*  
*" Emissões sonoras das máquinas utilizadas no exterior", diretiva 2000/14/CE (despacho de 18 de março de 2002) alterada pela 2005/88/CE (despacho de 22 de maio de 2006).*

### Tying machine A3MV2

Sound pressure level, LpA (NF EN 60745-2-11 : 2009)

72 dB(A)

*Schalldruckpegel A-bewerteter Schalldruckpegel am Arbeitsplatz, LpA*

*Nível de pressão acústica ponderada A no posto de trabalho, LpA*

**Uncertainty** *Messunsicherheit // Incerteza*

**KpA 3 dB(A)**

Measured vibration emission value, ah (NF EN 12096)

5,3 m/s<sup>2</sup>

*Gemessener Schwingungsemissionswert, AH // Valor medido da emissão vibratória, ah*

**Uncertainty** *Messunsicherheit // Incerteza*

**1,5 m/s<sup>2</sup>**

- "Electric chargers" (directive 2004/108/CEE) and with national legislation adapting them.  
*„Elektrische Ladegeräte" (Richtlinie 2004/108/EG) und den nationalen Bestimmungen, die diese umsetzen.*  
*"Carregadores elétricos" (diretiva 2004/108/CEE) e regulamentações nacionais que os transpõem.*
- The person authorized to compile the technical file within the company INFACO is Mr. Gregory ALVAREZ.  
*Die für die Erstellung der technischen Unterlagen bei INFACO berechnigte Person ist ALVAREZ Grégory.*  
*A pessoa autorizada a compilar o processo técnico na INFACO é o Sr. Gregory ALVAREZ.*

**Signed in > CAHUZAC SUR VERE**

*Ausgefertigt in // Feito em*

**Date > 01/02/2022**

*Am // A*

**M. DELMAS Davy, INFACO Managing Director**

*Geschäftsführer des Unternehmens INFACO // Presidente da Empresa INFACO*

**Signature**

*Unterschrift // Assinatura*

INFACO undertakes to provide national authorities with all relevant information concerning the machine.

*INFACO verpflichtet sich, den zuständigen nationalen Behörden die einschlägigen Angaben zur Maschine zur Verfügung zu stellen.*

*A INFACO compromete-se a fornecer às autoridades nacionais as informações pertinentes relativamente à máquina.*







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