



# **F.lli SPEDO**

## **USER'S MANUAL**

### **POTATO DIGGER FOR MINI-TRACTOR**

**SERIAL NUMBER:**

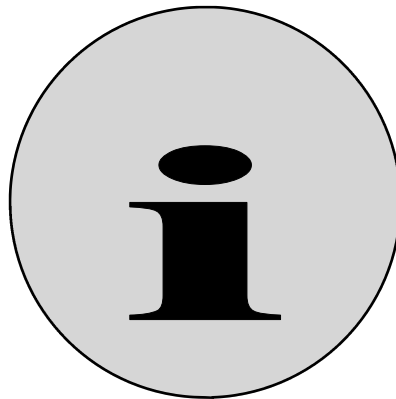


*Via Polesine, 119 - 37043 CASTAGNARO (Vr)  
ITALY - Tel. 0442 92025 - Fax: 0442 675088  
E-mail: [info@spedo.it](mailto:info@spedo.it) - <http://www.spedo.it>*

---

# INTRODUCTION

---



BEFORE USING THE MACHINE READ THE USER'S MANUAL CAREFULLY WITH ALL THE INSTRUCTIONS ON THE USE THAT AIM AT PROTECTING YOU AND YOUR INVESTMENT AND INDICATE THE CORRECT USE OF THE MACHINE AS PROVIDED BY THE MANUFACTURER.

This documentation integrates the machine and must accompany every transfer of property or movement within the company.

---

## **WARNING**

This usage and maintenance manual integrates the technical documentation relative to the POTATO DIGGER FOR MINI-TRACTOR

The manual must be kept with care, diffused and made available to all the interested persons.

The booklet covers the following triple functions: a tool for the operator, a commercial-technical reference for the Client a document for F.lli SPEDO within their company.

Texts, images and the drawings reported in this manual belong exclusively to the company F.lli SPEDO .

No part of it may be duplicated, reproduced or transmitted under any form or with any electronic, mechanical or photographic means, without explicit consent by F.lli SPEDO .

The update and/or preparation of a new revision or version of this manual is made only when the functional aspects of the machine are modified

---

## GENERAL INDEX

<b>1. GENERAL INFORMATION .....</b>	
1.1 WHAT IDENTIFIES THE MACHINE .....	
1.2 WHERE THE IDENTIFICATION PLATE IS .....	
1.3 WHO TO CONTACT IN CASE OF BREAKDOWN.....	<b>Pag. 1</b>
	Pag. 1
<b>2. ESSENTIAL PRINCIPLES OF SAFETY.....</b>	Pag. 2
2.1 GENERAL PRINCIPLES OF SAFETY.....	Pag. 2
2.2 GENERAL SAFETY NORMS .....	
2.3 RESIDUAL RISKS.....	<b>Pag. 3</b>
2.4 AIR NOISE PRODUCED BY THE MACHINE .....	Pag. 3-4
2.5 SAFETY PICTOGRAMS .....	Pag. 5
	Pag. 6
<b>3. TECHNICAL DATA .....</b>	Pag. 7
3.1 TECHNICAL CHARACTERISTICS .....	Pag. 7
<b>4. TRANSPORT AND MOVEMENT OF THE MACHINE.....</b>	<b>Pag. 8</b>
4.1 MOVEMENT WITH TRACTOR .....	Pag. 8
4.2 DAMAGE CONTROL .....	
<b>5. OPERATING INSTRUCTIONS.....</b>	<b>Pag. 9</b>
5.1 GENERALITIES .....	Pag. 9
5.2 CONNECTION OF THE MACHINE TO THE THIRD POINT.	Pag. 9
5.3 CONNECTION TO THE CARDAN SHAFT .....	
5.4 PRELIMINARY DIGGING REGULATIONS .....	
	<b>Pag. 10</b>
<b>6. MAINTENANCE .....</b>	Pag. 10
6.1 PRECAUTIONS .....	Pag. 10
6.2 MAINTENANCE OF THE MACHINE .....	Pag. 11
6.3 DISASSEMBLY AND REASSEMBLY OF COMPONENTS.....	Pag.12-13
<b>7. DEMOLITION AND DIASSEMBLY OF THE MACHINE .....</b>	<b>Pag. 14</b>
	Pag. 14
	Pag. 14
	Pag. 15
	<b>Pag. 15</b>

---

## 1. GENERAL INFORMATION

The next pages illustrate to the user how to identify the machine product: "POTATO DIGGER FOR MINI-TRACTOR" manufactured by F.lli SPEDO; this aspect is particularly important in time in order to guarantee the Constructor the possibility of supplying technical information or support for any kind of need to the client safely and rapidly.

Therefore we recommend not to alter or remove the information that are necessary for the identification of the product.

### 1.1 WHAT IDENTIFIES THE MACHINE

The physical identification support is the serigraphy and stamped plate with the indication of the data to refer to F.lli SPEDO in case of necessity; this plate is the only means of identification of the product recognised by the manufacturer.

A reproduction of the plate is below:

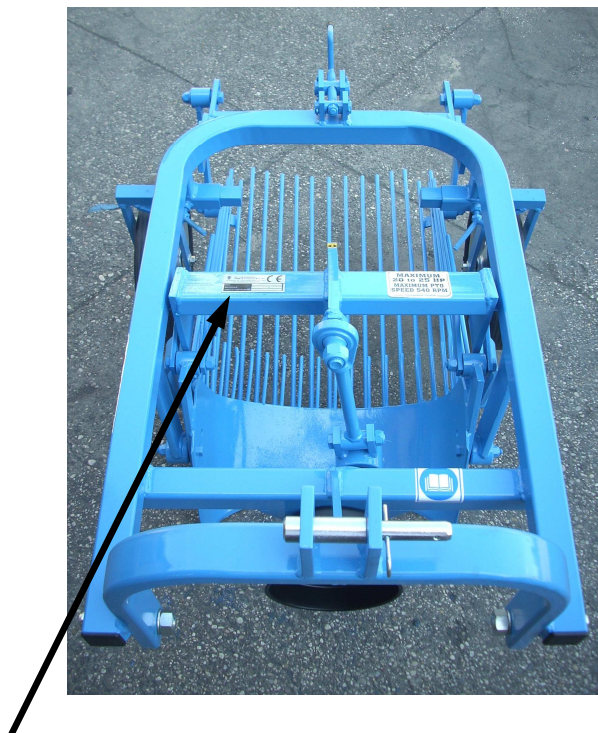


Targa CE

---

## 1.2 WHERE THE IDENTIFICATION PLATE IS

The position of the identification plate is located as indicated in the figure



Positioning of the CE plate

## 1.3 WHO TO CONTACT IN CASE OF BREAKDOWN

Many technical inconveniences are mostly removable with small interventions; therefore we recommend to consult this manual carefully before contacting our Assistance Service.

If it is not possible to solve the breakdown or inconvenience the client may refer to the area representative or directly to the manufacturer.

### MANUFACTURER'S DATA

**SPEDO F.LLI & C. Sas**

Via Polesine, 119

37043 CASTAGNARO (Vr) Italy

Tel. 0442 92025 - Fax 0442 675088

www.spedo.it - E-mail: info@spedo.it

---

## **2 BASIC GENERAL SAFETY PRINCIPLES**

### **2.1 GENERAL SAFETY PRINCIPLES**

The machine is supplied by F.lli SPEDO for the use and functioning provided in this manual. The operators are reminded to adopt a vigil and conscientious behaviour while the machine is working in order to improve the machine's level of safety.

The object of this manual is to give advice on caution and safety besides other specifications, in order to call the attention of the operators and staff on the possible dangers deriving from an improper use of the machine. The instructions supplied in this Manual deserve to be read carefully by you and your collaborators.

- ⇒ IT IS NECESSARY TO ATTAIN TO THE SAFETY PRESCRIPTIONS ON THE MACHINE AND CONTAINED IN THE MANUAL, DO NOT CRIPPLE THE INSTALLED OR PROVIDED SAFETY DEVICES AND USE THE MACHINE ACCORDING TO THE USE PROVIDED BY THE MANUFACTURER.
- ⇒ NON-OBSERVANCE OF THE REQUIREMENTS OF SAFETY AND/OR IMPROPER USE OF THE MACHINE MAY INVOLVE THE RISK OF ACCIDENTS FOR YOU AND OTHER PEOPLE.
- ⇒ IT IS RECOMMENDED TO ALWAYS FOLLOW THE MAINTENANCE PROGRAMS AS DESCRIBED IN THIS MANUAL.

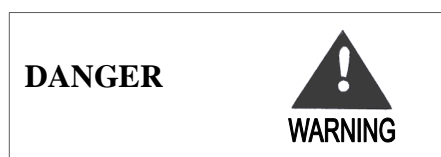
- 
- ⇒ THE INSTRUCTIONS OR WARNINGS DO NOT REPLACE THE SAFETY NORMS IN FORCE BUT INTEGRATE THEM AND STIMULATE THEIR OBSERVANCE.
  - ⇒ ATTENTION: THE WARNINGS DO NOT ELIMINATE DANGER!
  - ⇒ ALL THE INDICATIONS IN THIS MANUAL SHOULD NOT BE CONSIDERED ONLY FOR THE NEW MACHINES BUT EXTENDED TO ALL THE USED MACHINES.
  - ⇒ Before starting the machine read and understand this instruction manual carefully and thoroughly and enforce in full all the requirements and safety recommendations contained. Diffuse and make the content known to the persons concerned.
  - ⇒ Do not introduce your hands, arms or any part of the body close to the moving elements. It is forbidden to stretch pot beyond the protection structures. The use of means that could increase the natural accessibility is also forbidden.
  - ⇒ For the research of any cause of breakdown or failure concerning the machine, adopt all the precautions described in the Manual and suitable for the prevention of any damage to persons and things.
  - ⇒ If the operator has a sudden illness or an, even light, physical problem, that could reduce the capacity of vigilance he must avoid starting the machine and ought to inform the person in charge of the plant.
  - ⇒ It is forbidden to operate the machine when under the influence of alcohol, psychoactive drugs or drugs.
  - ⇒ It is absolutely forbidden to neutralize, remove, modify or cripple any safety device, protection or control belonging to both the device and the main machine, wherever placed. All the protection and safety devices must be kept in perfect conditions and constantly efficient. Even the plates for indications, recommendations and dangers must be preserved perfectly efficient and in their place.
  - ⇒ It is absolutely forbidden to leave the machine connected to the tractor and raised from the ground.
  - ⇒ Remember to fasten every screw, bolt or gasket of each mechanical element object of regulations or tuning.
  - ⇒ Should situations of immediate danger occur the operator should stop the digging immediately and switch the tractor off.



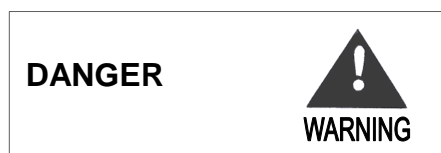
---

## 2.2 GENERAL SAFETY NORMS

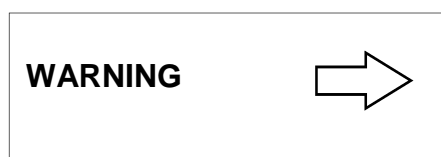
The following pages contain indications, suggestions, or recommendation that F.lli SPEDO addresses all users to favour the conditions of safety while using the machine and, at the same time, support the operator while using the products throughout its lifespan.



IT IS RECOMMENDED TO FOLLOW THE SAFETY NORMS INDICATED ON THE MACHINE AND IN THE MANUAL. DO NOT REMOVE OR ALTER THE SAFETY DEVICES UNDER NO CIRCUMSTANCES AND USE THE MACHINE AS PROVIDED BY THE MANUFACTURER.



THE INDICATIONS DO NOT REFER ONLY TO NEW MACHINES BUT ARE VALID GENERALLY EVEN FOR "USED MACHINES".



IN ORDER TO LIMIT DAMAGE DUE TO ANOMALIES OF THE MACHINE'S FUNCTIONING WE VIVIDLY RECOMMEND TO FOLLOW SCRUPULOUSLY THE SAFETY NORMS DESCRIBED IN THIS MANUAL.



WE VIVIDLY SUGGEST TO FOLLOW THE MAINTENANCE AND INSPECTION PROGRAMS AS DESCRIBED.

It would be useful to highlight the meaning of some of the terms used in this manual agreed upon with the MACHINERY DIRECTIVE:

**"Dangerous areas"** : any area inside and/or near a machine where the presence of an exposed person could create a risk for the safety and the health of that person.

**"Exposed person"** : any person who is entirely or partly in a dangerous area.

**"Operator"** : the person or persons in charge of installing, operating, regulating, of carrying out the maintenance, repairing and transporting a machine.

---

## 2.3 RESIDUAL RISKS

The manufacturer, on the basis of its own experience, reckons that there is a probability that the dangers listed below could occur based on the state of functioning of the machine.

- A. WORKPLACE
- B. MACHINE IN MOVEMENT
- C. MACHINE IN MAINTENANCE

When treating the following sections the manufacturer will supply the indications on how to prevent these possible damaging events or how to limit the consequences.

### A. WORKPLACE

1. The machine must be used only during the hours in which natural light guarantees safety during the use. If solar light is scarce supplementary artificial lighting must be provided by the client.

### B. OPERATING MACHINE

1. Danger for the operator of crushing and of getting caught by the machine while on the belt conveyor and on the shaker if present.
2. Danger of shearing for the operator who approaches the machine to remove the protection cover of the motor due to the high speed of the chains.

### C. MACHINE STOPPED AND/OR IN MAINTENANCE

1. It is necessary to separate the machine from the tractor before starting the maintenance operations.
2. Carry out the maintenance only as described in chapter 6 of this manual.
3. During the maintenance operations it is necessary to wear gloves in order to avoid danger of being cut by protruding parts or edges that cannot be eliminated.
4. After the maintenance operations it is necessary to reset the removed protection devices.

---

## 2.4 AIR NOISE PRODUCED BY THE MACHINE

Planning and manufacturing of the machine have been made so to reduce to emission of air noise from the source to the minimum level possible, in keeping with the provisions by the European Community Directive 89/392, Attachment I, par. 1.5.8.

Surveyed values:

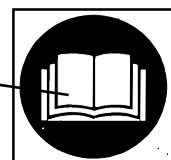
THE EQUIVALENT LEVEL OF EXPOSURE FOR THE OPERATORS IS INDICATED AS UNDER 70 decibels.

It is obvious that the presence of the TRACTOR has a preponderant and negative influence on the acoustic level of the operating area.

The preponderant noise source is determined in the traction means.

## 2.5 SAFETY PICTOGRAMS INSTALLED ON THE MACHINE

The following safety pictograms are reported on the machine:



Consult the manual before starting the operations

Safety pictograms


---

### 3. TECHNICAL DATA

#### 3.1 TECHNICAL CHARACTERISTICS

Hereafter the general characteristics of the POTATO DIGGER FOR MINI-TRACTOR are reported.

O.

<i>MODEL</i>		<b>CPP-T</b>
		
<i>WIDTH</i>	cm.	90
<i>LENGTH</i>	cm.	130
<i>HEIGHT</i>	cm.	85
<i>WEIGHT</i>	kg.	115
<i>PLOUGH WIDTH</i>	cm.	48

---

## 4. TRANSPORT AND MOVEMENT OF THE MACHINE

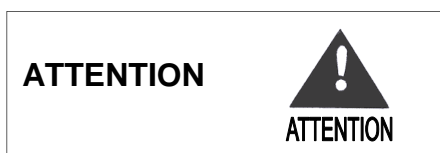
### 4.1 MOVEMENT WITH TRACTOR

Connect the machine as defined in the paragraph 5.2 (if it concerns only transport and movement the cardan shaft is unnecessary) and list if by means of the 3rd point.

### 4.2 DAMAGE CONTROL

Before carrying out any operation, VERIFY:

- ◇ that no part of the machine has been damaged during transport and/or while been moved.



IT IS FORBIDDEN TO USE THE MACHINE IF ALL THE SAFETY DEVICES ARE NOT INSTALLED AND FUNCTIONING CORRECTLY (PROTECTION CARTERS, COVERS, ETC...)

## RECOMMENDATIONS

## 5. OPERATING INSTRUCTIONS

### 5.1 GENERALITIES

The machine requires suitable power supply.

If the power supply is above the one required this could cause a situation of risk of mechanical damages, machine's integrity and quality of the work.

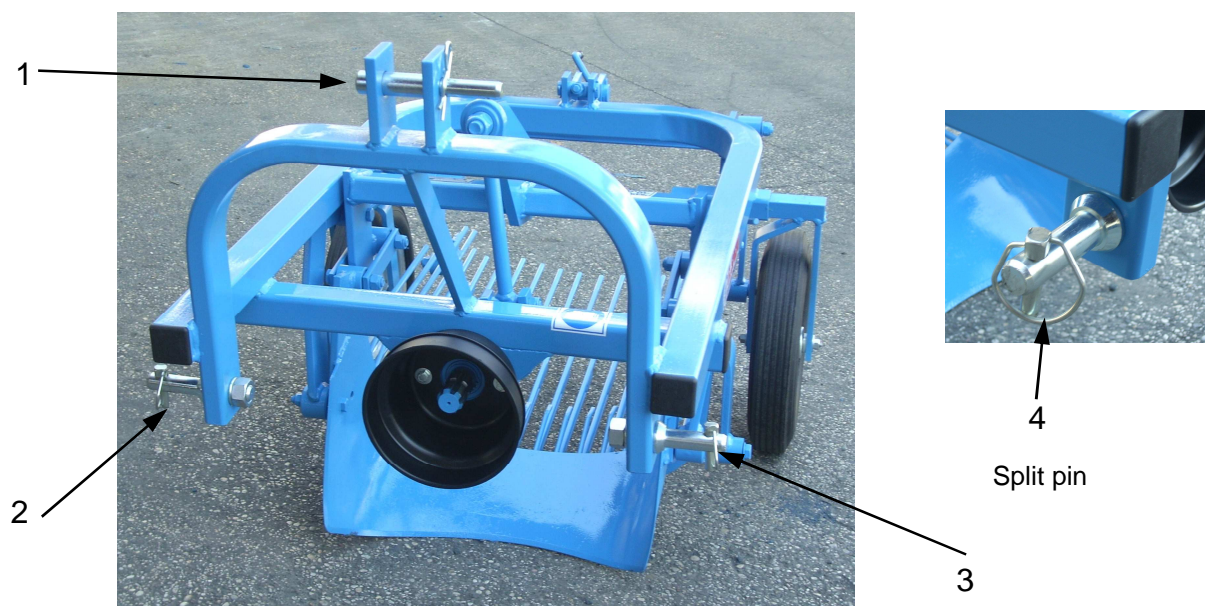
Before starting the work operations it is necessary to prepare and regulate the machine according to the characteristics of the land and cultivation. All regulations must be made by qualified and trained staff.



### 5.2 CONNECTION OF THE MACHINE TO THE THIRD POINT

The POTATO DIGGER must be connected to the TRACTOR by means of the third point.

- a) To connect it, insert the pins (1-2-3) (see figure) and block the split pin (4)



Connection to third point



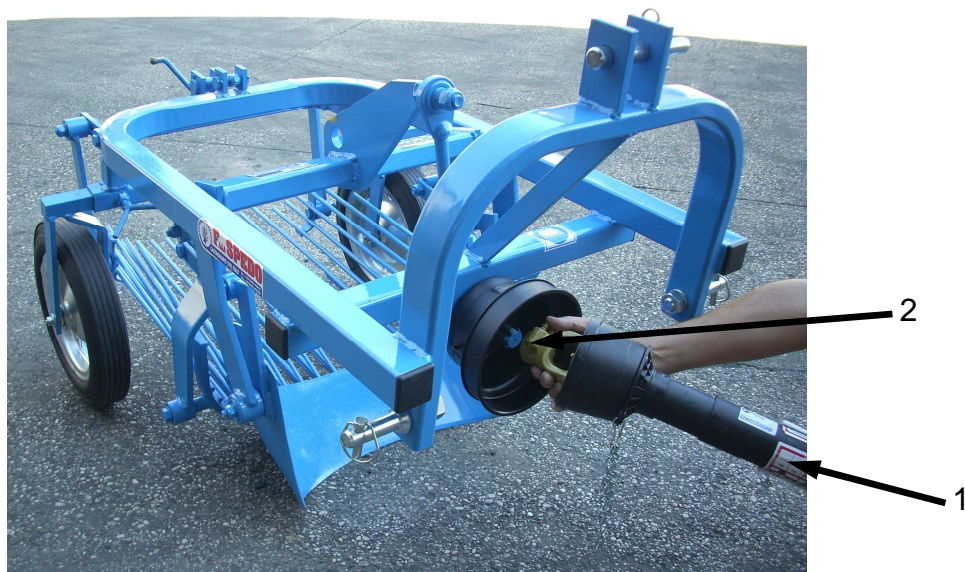
---

## 5.3 CONNECTION TO CARDAN SHAFT

To connect the POTATO DIGGER to the mini-tractor's power take-off (540 REV. /1') it is necessary to use a cardan shaft (upon request).

To connect it carry out the following operations:

- a) With the cardan shaft (1) disconnected from the mini-tractor, insert it in the reducer (2)



Installation of the cardan

- b) Push the cardan until the plug of the same shaft is blocked



Connection to cardan shaft

---

## 5.4 PRELIMINARY DIGGING REGULATIONS

The Potato Digger mod. CPP-T has been devised to operate in small pieces of lands. It must be attached to a mini-tractor with a tight track (cm. 70– 90).

### DIGGING DEPTH

Before starting the digging operations it is necessary to adjust the machine to the due depth by means of the third point adjuster (1)

- By shortening it the depth is increased
- By elongating it the depth is decreased



Third point adjuster

In order to obtain good results in the cleaning of the potatoes it is recommended to use a sufficient digging depth (3-5 cm. Under the potatoes' level) without loading uselessly the machine with earth.



---

## REGULATION OF THE GRID'S INCLINATION

Act on the adjusting screw (1) according to the type of land (more or less clayey or damp) which regulates the inclination of the sieving grid thus allowing to separate the potatoes from the earth better.



Regulation of the sieving inclination

---

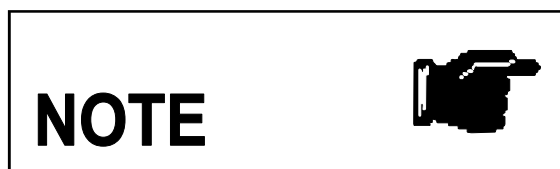
## 6. MAINTENANCE

### 6.1 PRECAUTIONS

Read this section carefully before carrying out the maintenance operations on the machine: this will guarantee better conditions of safety to the appointed staff and more reliability of the interventions carried out.



ALL THE MAINTENANCE OPERATIONS MUST BE CARRIED OUT WITH THE MACHINE ON THE GROUND AND DISCONNECTED FROM THE TRACTOR



LE OPERAZIONI DI MANUTENZIONE DEVONO ESSERE ESEGUITE SOLO DA PERSONALE QUALIFICATO ED AUTORIZZATO A TALE COMPITO.

### 6.2 MAINTENANCE OF THE MACHINE

The machine does not require particular maintenance operations:

AT EVERY SHIFT: clean the machine carefully with water.

EVERY YEAR: at the end of the collecting unload all the potatoes from the grid and clean the machine carefully using water.

AT EVERY SHIFT: clean the machine carefully with water.

EVERY YEAR: at the end of the collecting unload all the potatoes from the grid and clean the machine carefully using

---

## 6.3 DISASSEMBLY AND REASSEMBLY OF COMPONENTS



EVERY DISASSEMBLY AND REASSEMBLY OPERATION MUST BE CARRIED OUT WITH:

- a) ABSOLUTE CERTAINTY THAT THE MACHINE IS STOPPED;
- b) THE WORKING AREA SUITABLY PROVIDED WITH EVERY NECESSARY TOOL AND DEVOID OF DANGEROUS COMBINATIONS;
- c) EVERY DISASSEMBLED PIECE CLEANED CAREFULLY, GREASED, POLISHED OR LUBRIFIED ACCORDING TO THE ELEMENT'S USE.

---

## 7. DEMOLITION AND DISMANTLING OF THE MACHINE

At the end of the real life cycle, the company that is using the machine must proceed to its alienation in keeping with the enforced norms:

- ◇ the general cleaning of the various elements followed by the separation of the pieces that make up the machine with the plastic containers , filters, etc...) to proceed the with the waste disposal of the various materials.