

# ENOITALIA

MACCHINE ENOLOGICHE  
WINE PRODUCTION MACHINERY



ISTRUZIONI PER L'USO INSTALLAZION E MANUALE TECNICO  
*USER INSTRUCTIONS, INSTALLATION AND TECHNICAL MANUAL*

## PIGIA-DIRASPATRICE CON MOTORE ENO3-ENO10-ENO 15

*ITALIA*

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**ATTENZIONE:**

*Il presente manuale deve essere conservato in prossimità della macchina ed in luogo conosciuto dal personale addetto alle operazioni di utilizzo, manutenzione e riparazione*

***1. INDEX***

**15. INDEX**

**16. CONTENT**

**17. SAFETY RULES**

**18. DESCRIPTION**

**19. SECURITY GUARDS**

**20. INSTALLATION**

**21. WASHING AND CLEANING FIRST INSTALLATION**

**22. WIRING CONNECTION**

**23. START AND STOP**

**24. CLEANING AND MAINTENANCE**

**25. PROBLEM SOLVING**

**26. THECNICAL FEATURE**

**27. GUARANTEE**

**28. CE DECLARATION OF CONFORMITY**

**DRAWING AND WIRING CONNECTION (ATTACH)**

## 2. CONTENT

*This volume contains all the information accompanied by drawings and/or diagrams necessary for installation, operation and maintenance of the crusher-destemmer. It also establishes safety standards that staff must respect the machine.*

*This volume is intended for: the establishment or department managers, staff involved with the installation, the machine operator staff, maintenance personnel*



***It is forbidden operation and repair of the machinery by persons who have not read and assimilated the safety precautions contained in this manual. The manual is part of the machinery, and it must be made available for an easy and fast consultation .***

***The manual must be stored in a suitable place, which does not adversely affect the conservation status of the manual particularly***

***In particular :***

- ***Place in a clean, and dry location, and communicate this place to all staff***
- ***It is forbidden to write part of the manual***

## 3. SAFETY RULES



**FAILURE TO RESPECT THESE INSTRUCTIONS IS DANGEROUS AS IT MAY CAUSE INJURIES TO PEOPLE AND DAMAGE TO THE MACHINE**

Before to use the machine is necessary to read this manual, and it is obliged to integrate these indication with all the valid regolamentation about safety and accident prevention.

The driving gear may cause accident . It is necessary to use caution when the machine is working,

Furthermore, the positioning of the crusher-destemmer in a wet location constitute a risk to accidental electric shocks caused by the electrical contacts of the motor

Enoitalia s.r.l. decline any responsabilità in case of :

- Inadequancy of the electrical system used for the machine
- Inadequancy of the location where the machine is installed
- Not respect of the indication for installation, use and maintenance, as indicated in this manual
- Use of the machine by not qualified operator
- Not allowed modification to the machine

**The only use of the machine is the one indicate in this manual. Enoitalia srl decline all the responsibility for any different use of the machinery**

## 4. DESCRIPTION

### 4.1. ADVICES:



- The crusher must be used exclusively for the processing of the product described in this manual
- Don't start to install or to use the machine before the reading of this manual
- Don't start the machine if there are missing labels
- Don't start the machine if there are not safety protection or abnormal vibration, or if the safety protection are not installed
  - Do not start the machine if the electrical motors and/or the structure of the machine are damaged.
  - At least once a year ensure that the various machine components are secured and if necessary tighten any loose nuts/bolts.
- Ensure that the circuit tension to which the engines' control panel is connected is the same as that of the engine cabling.
- Don't use the machine if the motor is overheating. Wait till the motor is became cold
- Use only experienced personnel to put in operation, clean and do maintenance on machinery
- Do not start engines if the rotating elements are prevented from rotating freely.
- When using slings to lift the machine, make sure these are suitable to the weight to be lifted
- Wash and clean the machine only with no-toxic products
- This book let must always accompany the machine. Any reproduction including partial reproduction of the same is forbidden.

We thank you for choosing our machine and have pleasure in enclosing this use and maintenance manual to allow you to make the best use of the machine thus extending its service life.

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### 4.2. DESCRIPTION

This machine can be used only for pressing and destemming Grape, suitable to be used by small winery or family use.

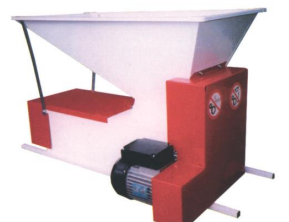
.

The models referenced in this manual are as follows:

1) ENO 3/V manual destemmer crusher in 3 version: painted, hopper in inox; all in inox . Code: 521/522/525



2) ENO3/M motorized destemmer crusher in 3 version: painted, hopper in inox; all in inox . Code 523/524/526



3) ENO 10 motorized destemmer, in two version painted; all inox . Code 012/212



4) ENO15 motorized destemmer crusher in 3 version: painted, hopper in inox; all in inox . Code 023/025/024/026/027/028/223/225/224



All the model mentioned in this manual are different only for the dimension, the material used (painted iron, stainless steel) and hourly production, but they work all the same

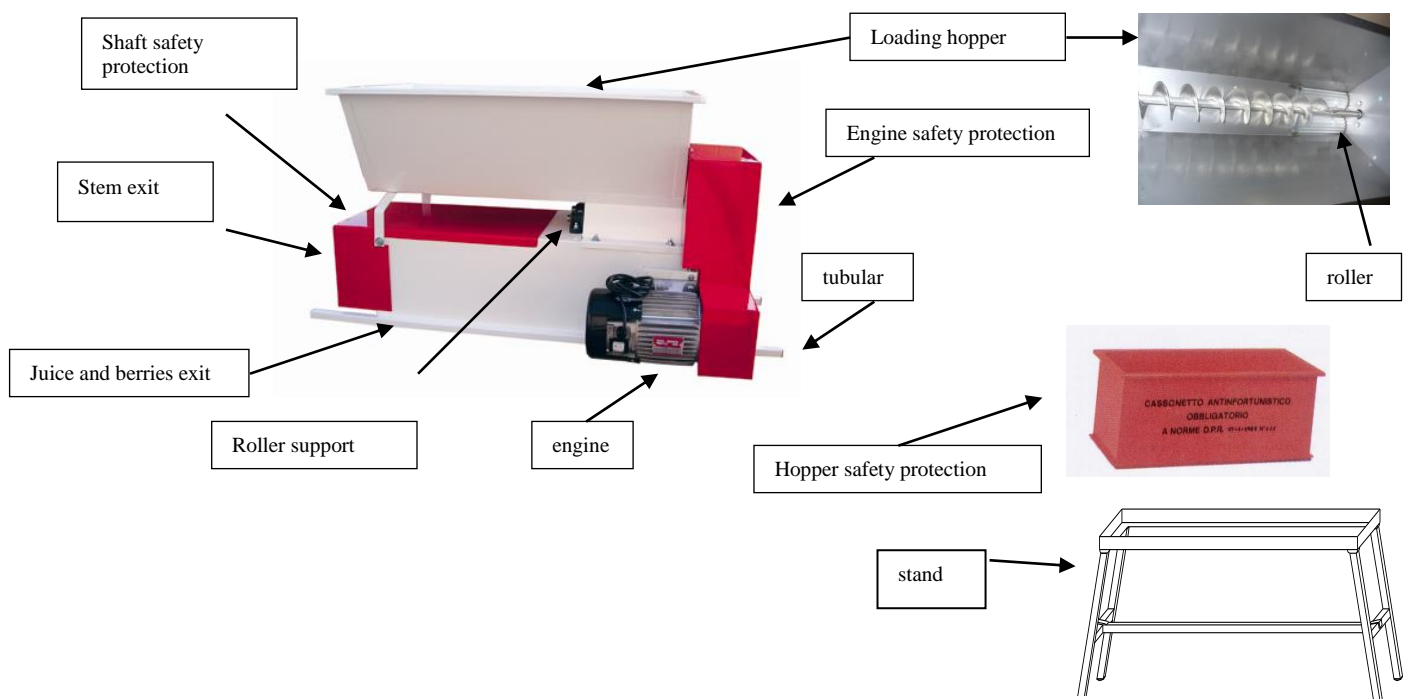
The machine is composed by the following part:

- 5) **Hopper for loading of the grape or fruit:** inside there is an agitator (for the model ENO 15- ENO 10), or an agitator (for the model ENO 3/V ENO 3/M).
- 6) **Roller for press:** are made in alluminium or in rubber (the model ENO 10 is without roller). They are install on a support with a spring in the middle. This spring allows self adjustment of the roller (i.e. there is a solid part the roller move, and the gear are not broken). To regulate the space between the roller it is possible to use the bolt (Fig. n°10)
- 7) **Basket:** allows the separation of the berries from the stems, by means of rotation of the shaft. Juice and berries are collected in a container placed under the machine
- 8) **Stem exit :** the stems are removed by gravity in the terminal part of the machine. Only the fallen stems should be removed , and not those eventually deposited in the sheet of the machine. To remove them you must stop the machine, disconnect the electrical plug from power and extracting

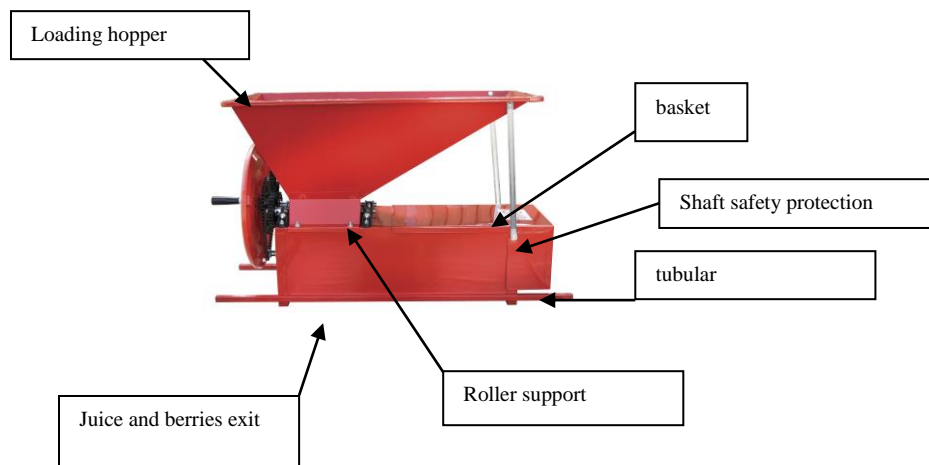


**Never do this operation with the machine on**

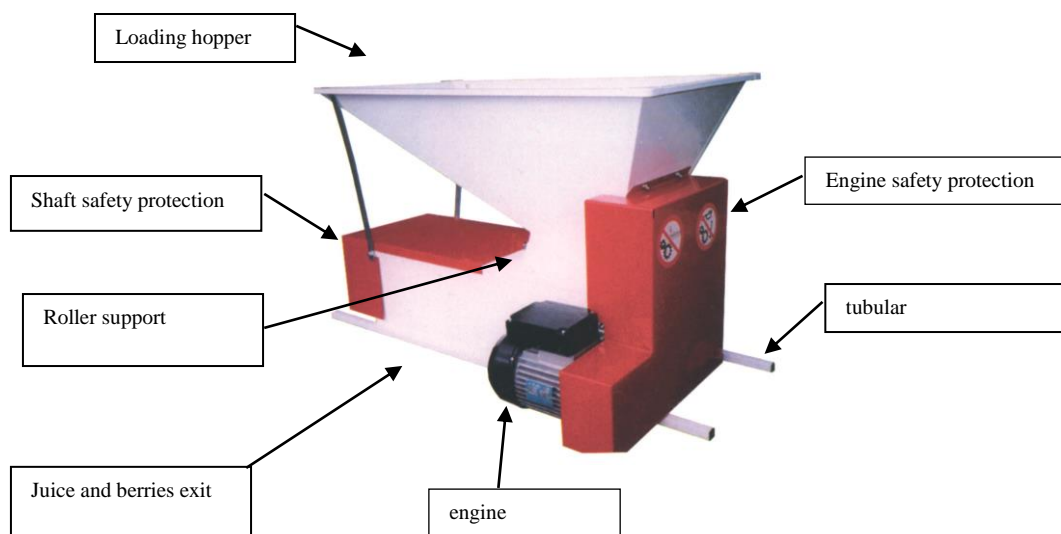
- 9) **Engine:** it is supplied with emergency stop, cord and plug (on the monophase version). It is necessary that the circuit tension and the system of the user is conformed to the regulamentation , and must be suitable compare with the label of the motor



**Figura n.1 Description destemmer crusher model ENO15**



**Figura n.2 Description destemmer crusher model ENO3/V**



**Figura n.3 Description destemmer crusher model ENO3/M**

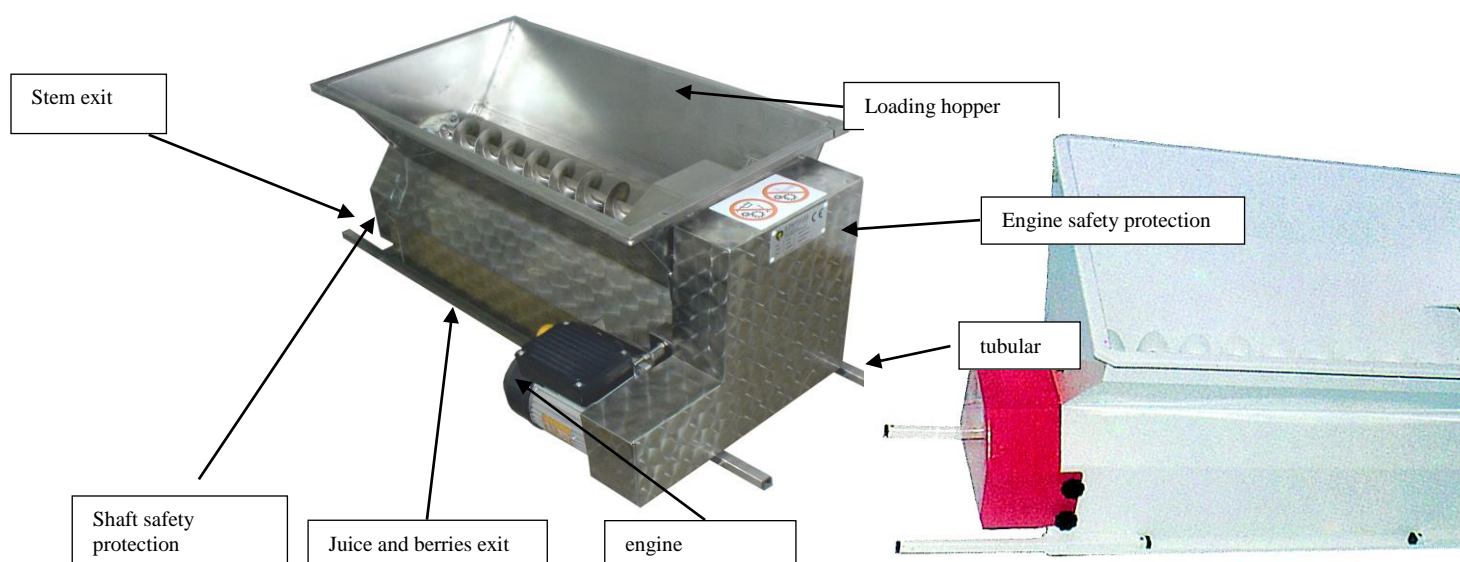


Figura n.4 Description destemmer model ENO 10

- 7) **Hopper safety protection:** it must be placed on top of the hopper. This protection is necessary to prevent access to the area of the upper limbs of action of the auger and rollers. (Figure 1)

The machine must be installed over a collection tank.



Please note the installation of equipment on a stable surface is a prerequisite for the safe use of the product. It is recommended to proceed with extreme caution in the installation of machinery and its lock on the selected container, which must have features:

- rigidity
- stability•
- robustness (the weight of the machine at full load is about 130 kg)
- adequate size (see section 5.1 Security Guards)

In the case are used circular plastic collection tank, the diameter must not exceed 800mm, and the machinery is blocked with appropriate straps (not supplied) as shown in the picture





Enoitalia srl suggest to install the machinery over the appropriate stand code 008-009-010, as shown in the picture:



**Fig n°5 destemmer crusher ENO 15 with stand code 010**

The destemmer crusher ENO 3/V, ENO 3/M, ENO 10, ENO 15, can be used only for:

- press the grape with roller
- separate the berries by the stem with the basket and the shaft

*We suggest to make an evaluation of the adequacy of the place where install the machine: the machine must be easy to access from any side, and in particular the emergency stop: it is a safety device install on the motor which stops the machine when the cover is lifted; the space free around the machine must be more than one meter; the machine doesn't hamper the passage of elevator or other vehicle; the floor must be strong enough to support the weight of the machine and with a sloping less than 10%; all the user must be exposed to the noise in similar way, in respect of the law limits; the temperature the humidity and the magnetic area have not to cause dangers to the machine; the light must be suitable for a safety and correct work*



All the changes in the use, in the products used, in the type of the operations, are value as a new installation of the machine and Enoitalia srl decline any responsibility.

## **5 SECURITY GUARDS**

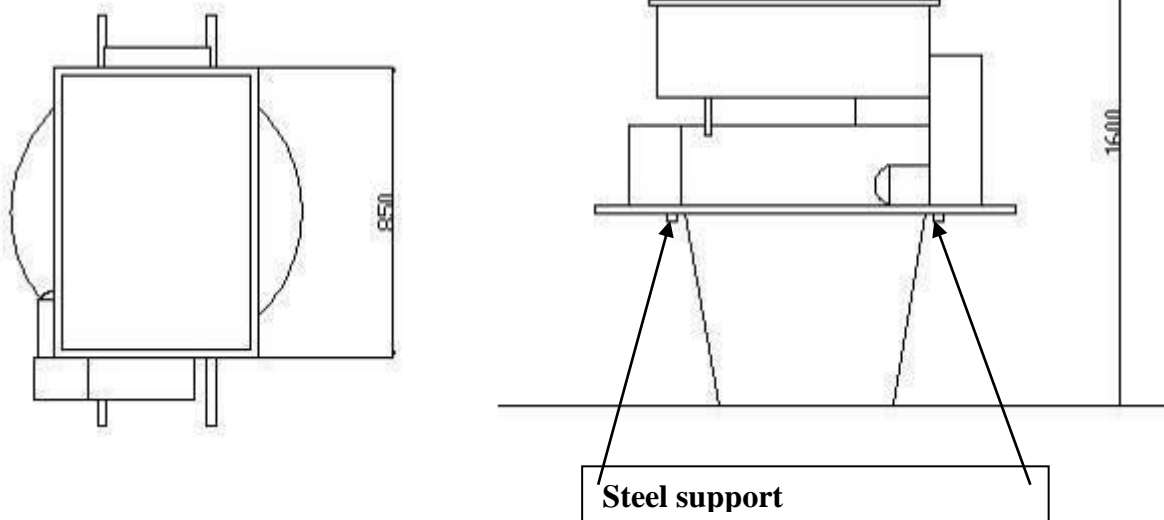
### **5.1. GENERAL NOTE**

The motorized machine are provided with protections for the motors and for all the gears, to avoid the direct contact with harm or fingers.

These machine are also provided of a upper safety box to install over the hopper (fig. n.1) to avoid the accidental possibility to touch the agitator and the roller.. This safety protection doesn't protect with the intentional introduction of the harm inside the hopper ,because must allow the loading of the grape inside the machine. For the safety of machinery, and for the proper functioning of safety devices installed, in the case of positioning the machine on a collection tank, check compliance the following dimensions (in addition to the warnings section 4.2)



**Fig n°6 dimension for installation over a collection container**



**Do not carry out introduction of body part or instruments, or maintenance work while the machine is in operation**

The employer, or the company responsible for the user of the machine, are obliged to ensure that all the user of the crusher-destemmer are informed of the safety regulations regarding the use of machinery, and must provide all information necessary to ensure a safe use.

In particular, must check that:

- tampering or modifications are not carried out on the machine
- The machine is used for the intended use of this manual
- that the machine complies with the original configuration
- compliance with the safety regulations provided by law and those specified elsewhere in this manual

From an analysis of the risks associated with the use of the crusher-destemmer it was found that the most important are the following.:



Don't make any maintenance while the machine is working



Use safety glove



Guanti di protezione  
obbligatoria



Calzatura di sicurezza  
obbligatoria

Use safety shoos

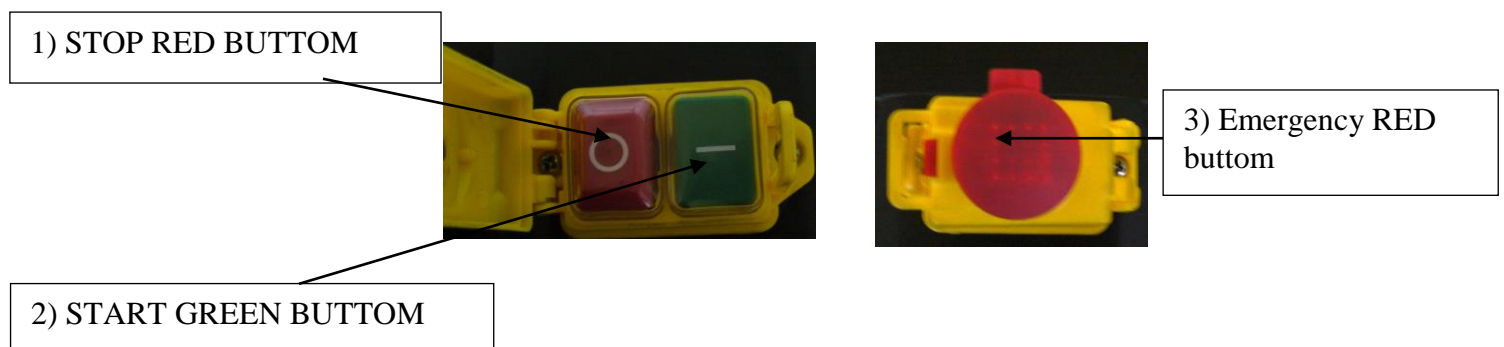
**Fig n.7 danger and prevention**

To crush or top cut hamr and fingers	Agitator roller	Don't remove the safety protection Stop the machine and disconnect the motor's plug by the net before to start any repair or maintenance. Don't repair the machine while it is working
To crush leg and feet	Fall down of the machine	Use safety shoes Be sure of the installation of the machine, in particular about the installation over the collection tank (see the point 6.2)
Electrocution. Fire	Engine	It is important that the user's electrical system complies with the law regulations in force and that its maximum power absorption is taken into account Check the cord and the plug if they are new and good Prevention of humidity Only specialized person have to work on the electrical panel

**TAB. 1: general risk**

## 5.2. EMERGENCY STOP

this is the machine's controls panel consisting of a cable and plug, an emergency-stop device and of a machine start button. The controls panel is connected to a safety device which stops the machine when the cover is lifted.



## 6. INSTALLATION

### 6.2 . FIRST CONTROL

The crusher is supplied in a cartoon box. Inside there is : n°1 manual instruction; n°1 assembled destemmer crusher with motor or manual type (there is an additional handwheel )

The hopper safety protection is supplied in a separate cartoon.



**Fig 8. Packaging**

Check that the machine is complete, perfect and there are no evident defect. Advice immediately the company Enoitalia srl in 15 day, about all the defects

Check the crusher is similar to the order one



**To take out the crusher from the cartoon box it is possible to use automatic lift system: be sure to balance the weight. Or manual, taking the machine by the tubular.**

Dispose of the latter in compliance with law regulations

### 6.2. INSTALLATION

To install the machine take care about the adequacy of the location, the type of the collection tank used to install the machine (see section 4.2) and the size to be respected (see section 5.1)

The height to install the machine must be enough to avoid the operator touch with the hands the inside part of the machine (roller and agitator).



**It is obliged install on the motorized machine the safety box over the hopper (as point. 4.2). This box is a component of the machine , and a standard feature of the safety system**

When the machine is installed , complete with the safety box, the height from the ground of the box must be more than 1600mm



**Fig n°9 System to fix the upper safety box**

## 7. CLEANING AND WASHING FIRST INSTALLATION.

Wash machine thoroughly to eliminate any residue and any dust on its surface. Take care of the engine, cord and plug.

Install the safety box over the hopper (for the motorized model only), as in figure n°9

If the electrical component are wet, wait till they are dry before to start.

## 8 WIRING CONNECTION

To start the machine, proceed with the electrical connection which must be carried out by a qualified technician. Avoid wetting the plug and socket.

Check the label on the motor and the adequacy with user's electrical system



**The safety of this crusher is valid only if there is a user's electrical system complies with the law regulations in force and that its maximum power absorption is taken into**

*If it is necessary to use extension or multi-socket , use only material conformed to the law regulation in force and respect the limit of maximum power absorption. We suggest to use a cord wide 1,5 mm for extension till 20mt, and wide 2,5 for longer distance*

## 9 START AND STOP



**Important: before starting the machine, ensure that there is nothing that prevents the mechanical parts from moving freely and, above all, that nobody is close to the moving parts of the machine. More specifically, hands, arms and other body parts must be kept well away from the inside of the box.**

Ensure that the engine voltage corresponds to the voltage of the mains.

Avoid moving the machine while it is in operation. Machine start-up must not be carried out barefoot, with bare or soaking wet hands. Check that both plug and socket are in working order. We recommend that rubber gloves, boots and an apron be worn by the user while using the machine.

Check the correct installation of the safety protection

Check the emergency stop of the motor work good.

If during this control there is any defect , stop the machine, disconnect the plug by the main, advice the deparmente manager, or the owner or directly Enoitalia srl.

If there are no problem during this control, proceed as following:

- Press start bottom, and the machine will start to work
- Load the grape or the fruit inside the hopper
- The grape will start to be pressed by the roller and destemm by the shaft
- To stop the machine press the safety stop
- To start again , open the safety switch and press again the green bottom

If it is necessary to repair the machine (obstruction or foreign body), make like this:

4. stop and disconnect the motor from the main;
5. Remove item from the inside of the machine by using a suitable tool and if necessary open the machine
6. close the machine, and check to have all the protection install



**Do not carry out introduction of body part or instruments, or maintenance work while the machine is in operation**

## **10. CLEANING AND MAINTENANCE**

After using the machine and in any case at the end of each working day, unplug the machine from the main and wash thoroughly to eliminate any residue .

**During maintenance and repair operations, remember to interrupt the electrical power connection by switching off the mains and by unplugging the machine. This operation must be carried out to avoid accidentally starting the machine which could cause injuries to people and damage to the machine.**

To wash the machine correctly, open it , remove the basket and eliminate any residue inside it. To remove all residue from the rollers, these should be washed from the top and from the bottom.

During washing pay attention to the motor

for washing use hot pressure water and neutral detergent

Once washing is completed, if the machine is not to be used for a long period of time, proceed as follows:-

- Open the carter that protects machine gear.
- Grease all chains, internal gear, supports
- Grease the roller and the agitator support

To polish the machine's metal surface, use vaseline oil on the inox surface, or detergent for alimentary use on the painted surface.



**Any maintenance must be attend my specialized and qualified worker or directly by Enoitalia s.r.l. Use suitable lubricants to come in contact with foodstuffs**

It is not possible disassemble the engine. If it is necessary ask before to the reseller or directly to Enoitalia s.r.l.

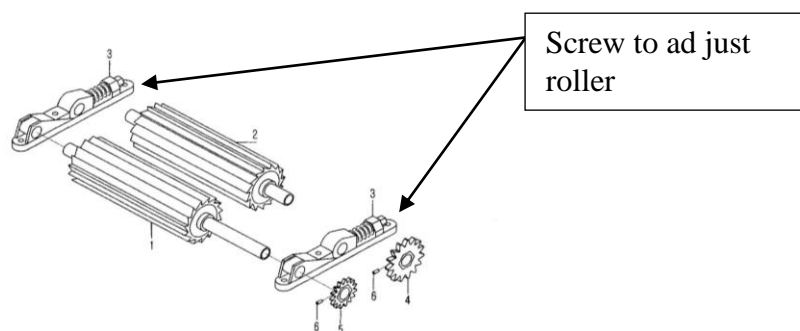
In the event of any repairs you need to use original spare parts directly contacting the dealer or the manufacturer



**To use not original spare parts or not allowed by Enoitalia s.r.l., is reason of decline of the warranty and of the Declaration of Conformity**

## 11. PROBLEM SOLVING

<i>INCONVENIENTI</i>	<i>RIMEDI</i>
The machine has difficulty in starting.	Check that machine is receiving the correct line voltage. Do not use extension leads that are too short as this could cause a voltage reduction. Check the tension of the transmission belts with the register provided.
The machine doesn't start	Make sure machine is plugged in. check the capacitor inside the engine
The screw or agitator doesn't move	Verify that the transmission gears are intact and well locked on the shaft of the roller Adjust the distance between the rollers with the appropriate screw placed on the support
Some berries or fruit are not pressed	Check the transmission gear are working good, and well fixed on the roller shaft. Adjust the distance between the roller and make for strong the support (fig.5)



**Figura n.10 adjustable roller**

## 12. THECNICAL FEATURE

The label on the machine indicate the information about the machine and the producer

	ENO 3/V	ENO 3/M	ENO 10	ENO 15
Dimension LxPxH mm	1210 x 500 x 690	1210 x 600 x 690	1210 x 550 x 630	1210 x 550 x 630
Weight	40 kg	51 kg	40 kg	40 kg
Hourly production kg/h	800	1000	1000	1000
Hopper dimension mm	1000 x 500	1000 x 500	1000 x 630	1000 x 630
Roller dimension mm	220	220	220	220
Motor	---	0,75 KW (1,0 HP)	0,75 KW (1,0 HP)	0,75 KW (1,0 HP)
Motor speed	1400 rpm	1400 rpm	1400 rpm	1400 rpm
Frequency and Voltage	230 V -50 Hz	230 V -50 Hz	230 V -50 Hz	230 V -50 Hz
Running Temperature	4 C°-50 C°	4 C°-50 C°	4 C°-50 C°	4 C°-50 C°

Noise level: weighted Leq A 78,9-83,8 db. (measured outdoors in normal working conditions, in compliance with the methods indicated in UNI 7712).

### **13. CONDITIONS OF GUARANTEE**

The guarantee covers the machinery for the first twelve months from its activation. Should the machine not be used immediately insurance coverage is guaranteed for up to eighteen months from the date of delivery and expires thereafter.

The guarantee does not cover machine transportation for which the buyer is responsible. The guarantee is not applicable in case the machine is not used in accordance with the instructions contained in the manual.

Any repair work is understood as being ex our factory in Cerreto Guidi (FI), transportation is at the buyer's expense.

The guarantee does not cover any defects due to the following reasons and entailing the termination of all our obligations:-

- Incorrect installation
- Tampering with the machine
- Lack of experience, failure to carry out maintenance operations, failure to promptly notify us of any defects.
- Failure to follow the instructions contained in the manual
- Repair work carried out by personnel not authorized by Enoitalia Srl.
- Transportation damage that cannot be attributed to manufacturing or packaging defects.
- Machine installation and electrical connections carried out in ways other than those indicated in the manual and on the plate located on the engine.
- Transportation expenses and risks in case the machinery is sent to authorized assistance centres.
- Electrical components
- Consumables and ordinary maintenance costs contained in the above-mentioned manual.

The guarantee does not extend to the obligation of covering damages to individuals or things deriving from the use of our product also when broken or defective.

We decline our obligations in case the payment conditions agreed are not respected.

Any complaint should be made in writing by the buyer to ENOITALIA Srl within 8 days from the date of purchase.

**Conditional sale:** pursuant to articles 1523-1524 of the code of civil practice, the property of the goods sold is transferred to the buyer only once the goods have been paid in full as agreed.

Any controversy shall be referred to the place of jurisdiction of Florence. Any controversy is disciplined by the Italian law even if goods are acquired by a foreign Italian citizen or if goods are supplied to a company abroad.



# EC DECLARATION OF CONFORMITY

**ENOITALIA s.r.l.**

Via Prov. Pisana, 162 Cerreto Guidi (Fi)

declares, in sole responsibility, that the following product:

**ELECTRICAL CRUSHER DESTEMMER ENO 15 code 025/024/027/028/225/224**

**ELECTRICAL DESTEMMER ENO 10 code 012/212**

**ELECTRICAL CRUSHER DESTEMMER ENO 3/M code 523/524/526**

**MANUAL DESTEMMER ENO 3 code 521/522/525**

Referred to in this declaration conforms with the following directives and standards

- Della direttiva 2006/42/CE (direttiva macchine) e successive modifiche e disposizioni nazionali di attuazione.
- Della direttiva 2006/95/CE (direttiva bassa tensione) e disposizioni nazionali di attuazione.
- Della direttiva 2004/108/CE (direttiva compatibilità elettromagnetica) e disposizioni nazionali di attuazione.
- UNI EN : 349:1993 / 614-1:2006 / 614-2:2000 / 953:1997 / 1037:2008 / 14119:2013
- UNI EN ISO: 12100-1:2003 / 12100-2:2003/ 13849-1:2008 / 13850:2008 / 13857:2008 14122-1-3
- CEI EN 60204-1:2008 / 61310-1
- EN ISO 3746

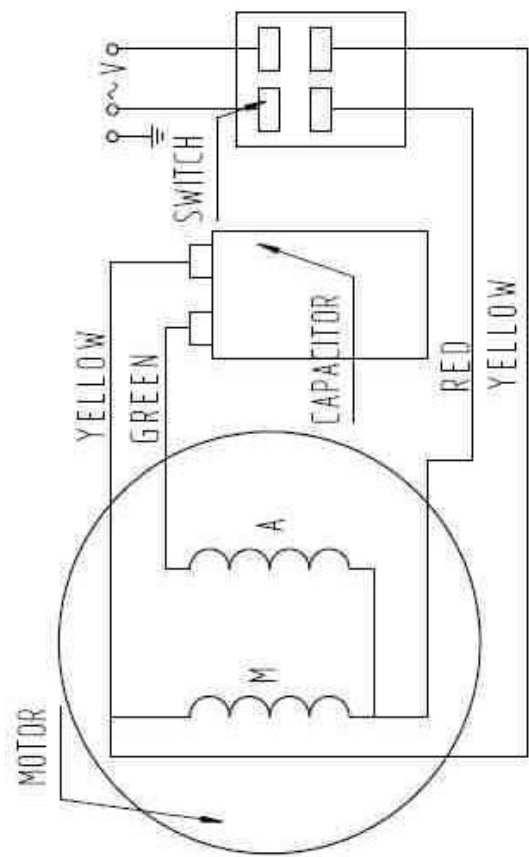
Cerreto Guidi 01/01/2016

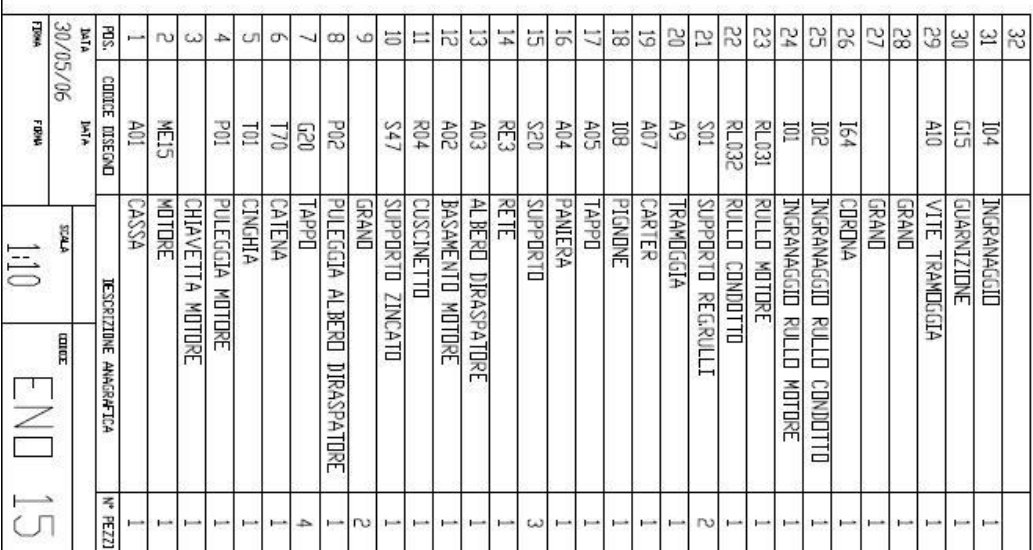
Il Responsabile di produzione

Menichetti Stefano

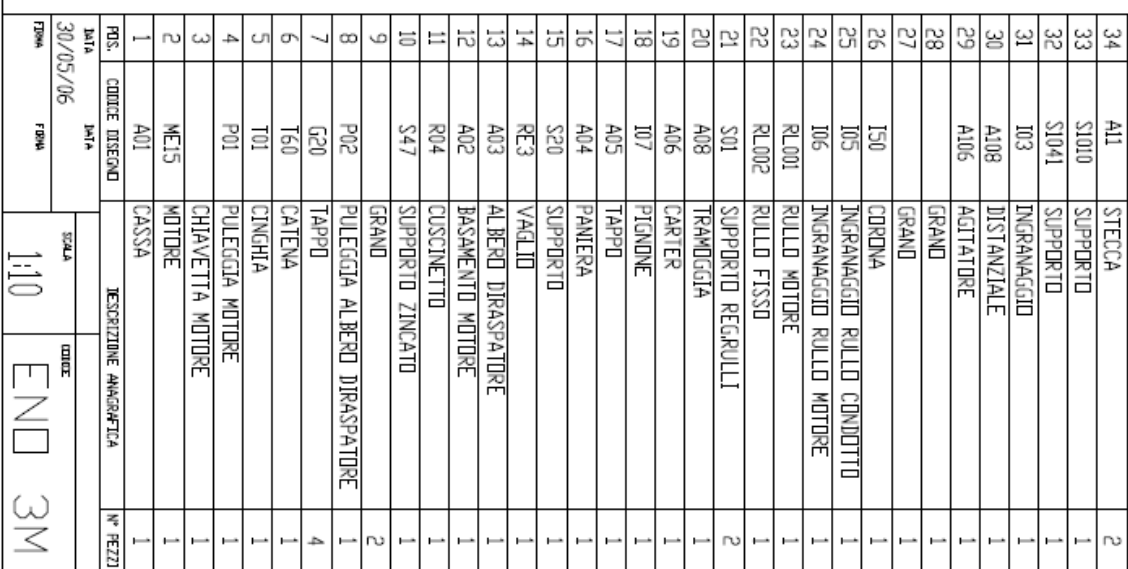
  
Stamp: ENOITALIA s.r.l.  
Via Prov. Pisana, 162  
50080 Cerreto Guidi (FI)  
Partita IVA 05997550488

SCHEMA ELETTRICO MOTORE HP 1 MONOFASE





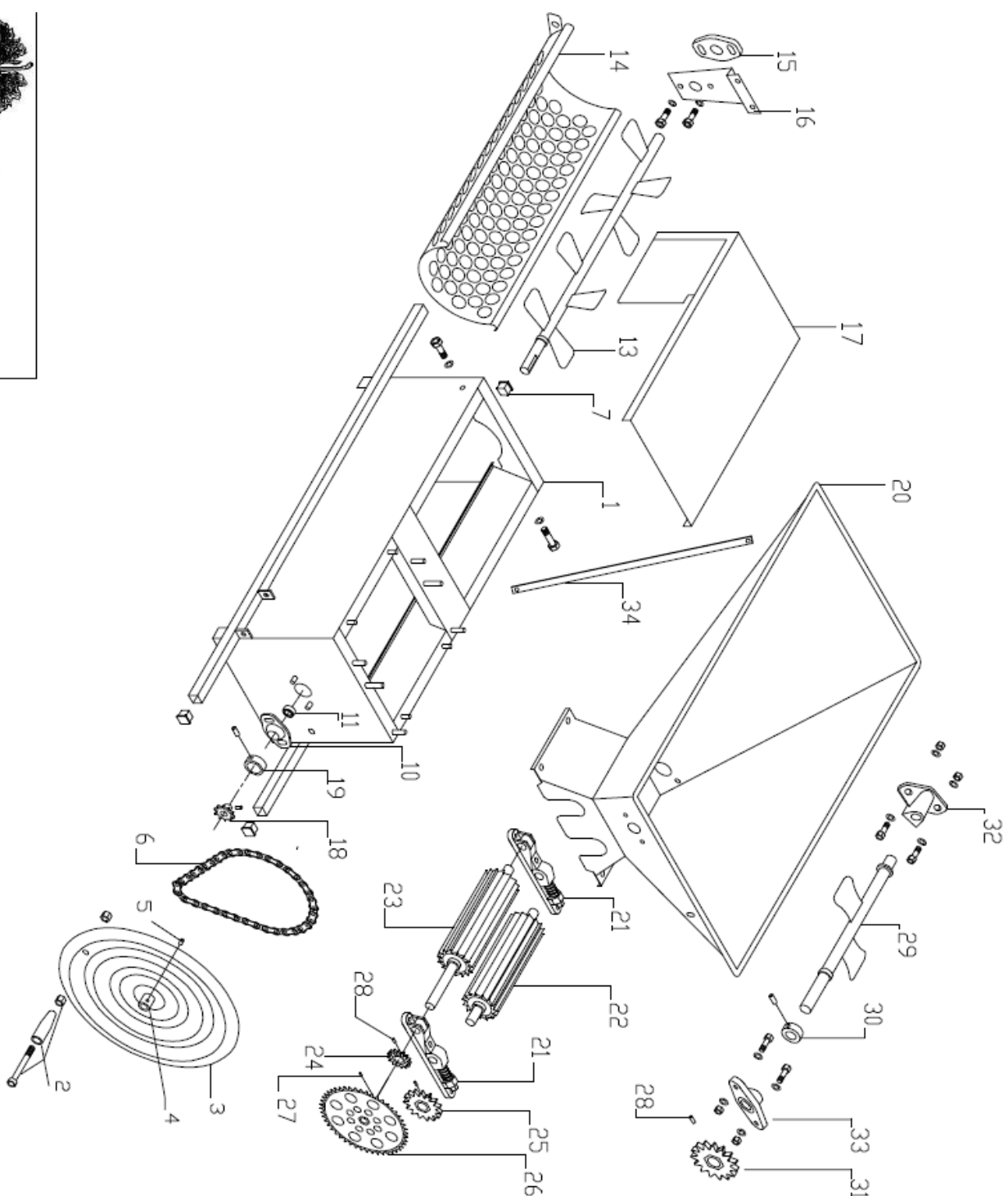
32		INGRANAGGIO	1
31	104	INGRANAGGIO	1
30	G15	GUARNIZIONE	1
29	A10	VITE TRAMOGGIA	1
28	GRAND		1
27		GRAND	1
26	164	CORDNA	1
25	102	INGRANAGGIO RULLO CONDOTTO	1
24	101	INGRANAGGIO RULLO MOTORE	1
23	RL031	RULLO MOTORE	1
22	RL032	RULLO CONDOTTO	1
21	S01	SUPPORTO REGULLI	2
20	A9	TRAMOGGIA	1
19	A07	CARTER	1
18	I08	PIGNONE	1
17	A05	TAPPO	1
16	A04	PANIERA	1
15	S20	SUPPORTO	3
14	REC3	RETE	1
13	A03	ALBERO DIRASPATORE	1
12	A02	BASAMENTO MOTORE	1
11	R04	CUSCINETTO	1
10	S47	SUPPORTO ZINCATO	1
9		GRAND	2
8	P02	POLEGGA ALBERO DIRASPATORE	1
7	G20	TAPPO	4
6	T70	CATENA	1
5	T01	CINGHIA	1
4	P01	POLEGGA MOTORE	1
3	ME15	CHIAVETTA MOTORE	1
2		MOTORE	1
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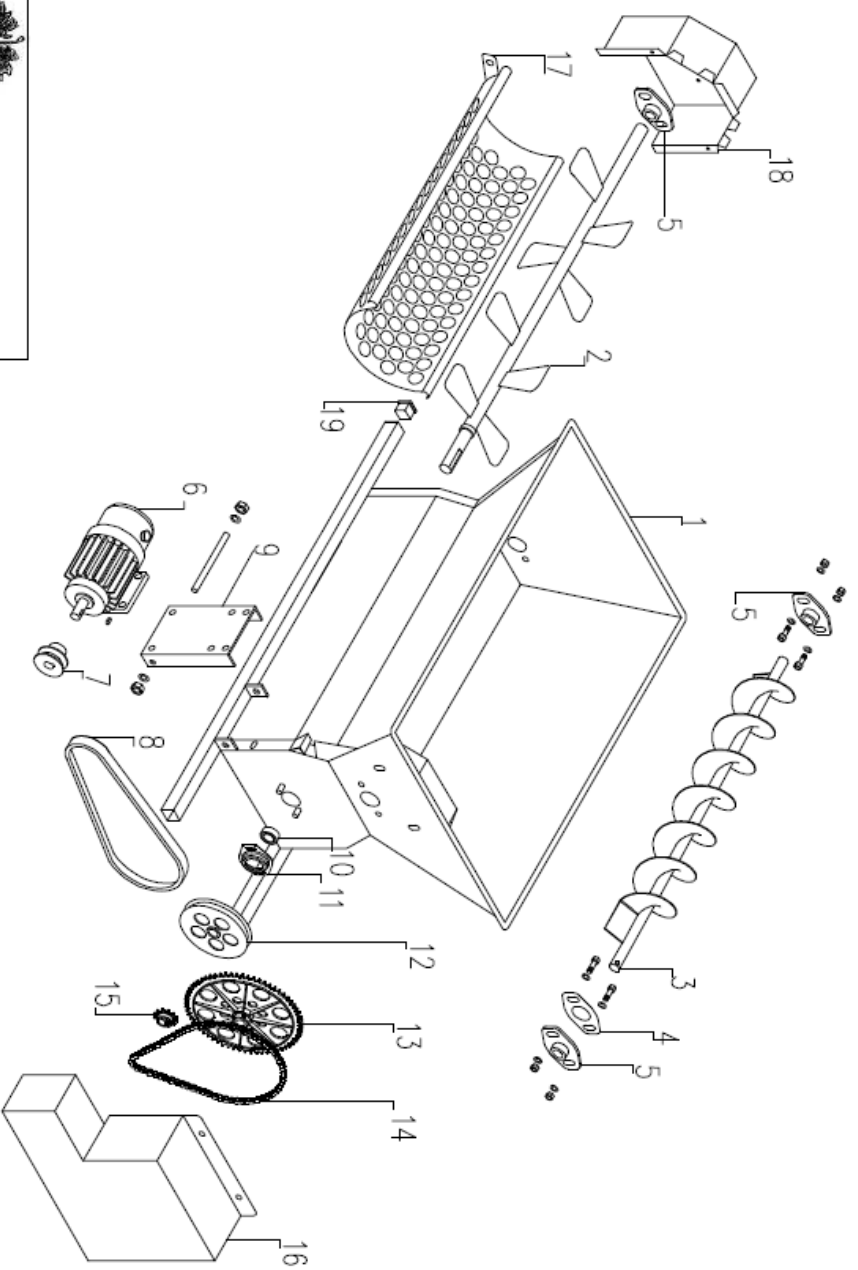
34	A11	STECCA	2
33	S1010	SUPPORITO	1
32	S1041	SUPPORITO	1
31	I03	INGANAGGIO	1
30	A108	DISTANZIALE	1
29	A105	AGITATORE	1
28		GRAND	1
27		GRAND	1
26	I50	CORDOVA	1
25	I05	INGANAGGIO RULLO CONDOTTO	1
24	I06	INGANAGGIO RULLO MOTORE	1
23	RL001	RULLO MOTORE	1
22	RL002	RULLO FISSO	1
21	S01	SUPPORITO REGRULLI	2
20	A08	TRAMOGGIA	1
19	A06	CAR TER	1
18	I07	PIGIONE	1
17	A05	TAPPO	1
16	A04	PANIERA	1
15	S20	SUPPORITO	1
14	RE3	VALLO	1
13	A03	ALBERO DIRASPATORE	1
12	A02	BASSAMENTO MOTORE	1
11	R04	CUSCINETTO	1
10	S47	SUPPORITO ZINCATO	1
9		GRAND	2
8	P02	PULEGGIA ALBERO DIRASPATORE	1
7	G20	TAPPO	4
6	T60	CATENA	1
5	T01	CINGHIA	1
4	P01	PULEGGIA MOTORE	1
3		CHIAVETTA MOTORE	1
2	ME15	MOTORE	1
1	A01	CASSA	1
POS.	CODICE DIREND	DESCRIZIONE ANALITICA	N° PEZZI
DATA		SCALA	CONTE
30/05/06		1:10	END 3M
FORMA			



ENOTALLIA  
s.r.l.  
COSTRUZIONI MECCANICHE



DATA	DATA	SCALA	CODICE	
30/05/06	FRMA	1:10	END 3V	
FIG.	CODICE DESCRIZIONE	DESCRIZIONE MANIFATTURA		
1	A01	CASSA		
2	G10	MANGLIA VOLAND		
3	A109	VOLAND		
4	I100	INSERTO PER VOLAND		
5		GRAND		
6	T60	CATEENA		
7	G20	TAPPO		
8		GRAND		
9		GRAND		
10	S47	SUPPORTO ZINCATO		
11	R04	CUSCINETTO		
12		CUSCINETTO		
13	A03V	ALBERO DIRASPATORE		
14	RE3	VAGLIO		
15	S20	SUPPORTO		
16	A04	PANIERA		
17	A05	TAPPO		
18	I07	PILONE		
19	A1082	Distanziale		
20	A08	TRAMOGGIA		
21	S01	SUPPORTO REG. RULLI		
22	RL002	RULLO FISSO		
23	RL013	RULLO MOTORE		
24	I06	INGRANAGGIO RULLO MOTORE		
25	I05	INGRANAGGIO RULLO CONDOTTO		
26	I50	CRODA		
27		GRAND		
28		GRAND		
29	A106	AGITATORE		
30	A108	Distanziale		
31	I03	INGRANAGGIO		
32	S1041	SUPPORTO		
33	S1010	SUPPORTO		
34	A11	STECIA		



21			
20			
19	G20	TAPPO	4
18	A124	PANIERA	1
17	RE10	RETE	1
16	A123	CARTER	1
15	I07	PIGNONE	1
14	T30	CATENA	1
13	I20	RUOTA DENTATA	1
12	P02	PULEGGIA ALBERO DIRASP.	1
11	S47	SUPPORTO ZINCATO	1
10	R04	CUSCINETTO	1
9	A02	BASAMENTO MOTORE	1
8	T01	CINGHIA	1
7	P01	PULEGGIA MOTORE	1
6	ME15	MOTORE	1
5	S20	SUPPORTO	3
4	G15	GUARNIZIONE	1
3	A122	VITE TRAMOGGIA	1
2	A121	ALBERO DIRASPIATORE	1
1	A120	CASSA	1

POS.	CODICE DISEGNO	DESCRIZIONE ANAGRAFICA	N° PEZZI
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DATA	DATA	SCALA	CODE
30/05/06	FINIA	1:10	END 10