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SPECIALIZZATI IN MACCHINARI PER SUOLIFICI**



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INCOLLATRICE PER SOTTOPIEDI, CON RULLO
IN ACCIAIO, TAVOLINO D'APPOGGIO, NUOVA
INSOLE CEMENTING MACHINE, WITH STEEL
ROLL, SUPPORTING TABLE, NEW

Directions for use MAV3230

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Directions for use cementing machine MAV 3230

MODEL	:MAV 3230
SERIAL NUMBER	:
FABRICATION YEAR	:



COSTRUZIONI MACCHINE PER CALZATURIFICI
Via Ruffini 15/3-27029 VIGEVANO(PV) -ITALIA-

DIRECTIONS FOR USE OF THE MAV 3230 CEMENTING MACHINE

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MODEL : MAV 3230
SERIAL NUMBER :
FABRICATION YEAR :

MARIO ANGELERI S.A.S. MACHINE FACTORY

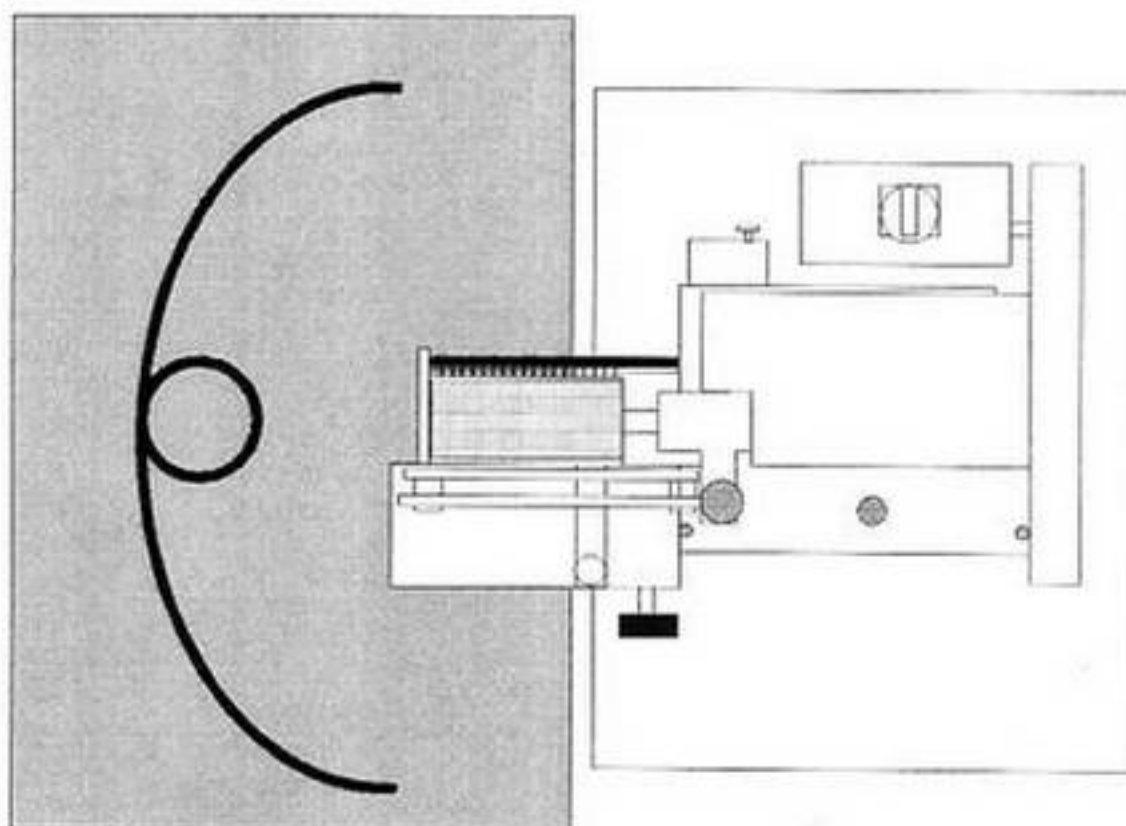
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-Codice fiscale e partita I.V.A.01163890187
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-Numero meccanografico: PV 004677
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1. MACHINE DESCRIPTION

The MAV 3230 cementing machine, built by the Mario Angeleri s.a.s. machine factory, is a cementing machine for solvent adhesives.

This machine is usually used in footwear, leathersgoods and paper-working factories. The cementing operation consists in introducing the material to be cemented between the two rollers of the cementing machine and in taking back the cemented material when it comes out the machine.

The useful cementing width is of 230 mm; so this machine is usually used to cement parts of footwears, handbags, wallets and products of the footwear and leathersgoods industry. The cementing machine has a working position for the user, as indicated in picture 1.



1.1 Safety protections

Electrical dangers

The machine is protected from overloads and short circuits by means of a magneto-thermal circuit breaker. There is also a low-voltage coil, that, in case of a temporary current cutoff, permits to the machine to restart only by pushing the bottom 1 of the general switch.

Mechanical squashing or abrasion dangers.

All the parts, transmitting the motion (gears and chains) are protected.

The gears, transmitting motion to the upper arm, are protected by fixed carters; besides a microswitch stops the machine in case that the arm is lifted up excessively. (This microswitch is absent in case the machine is provided of a pedal).

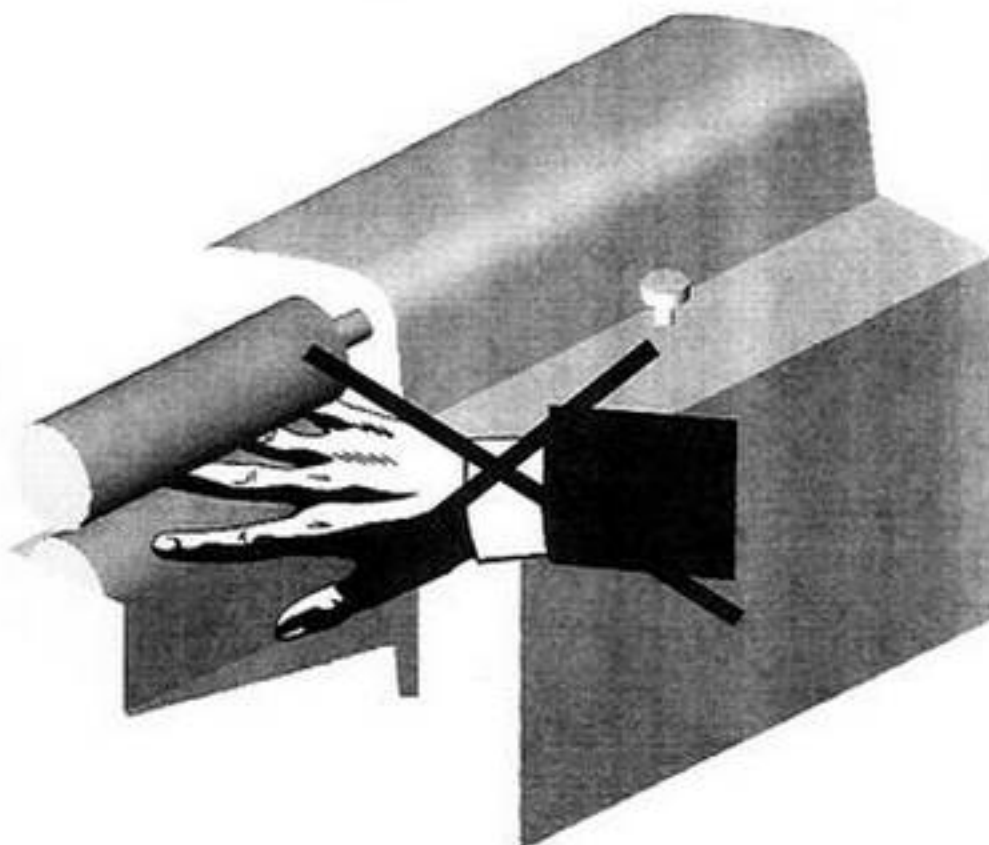
The arm of the upper transport roller can be lifted up, because it is holden only by a spring until the end of stroke position so to avoid dangerous situations, in case the operator touches the two rollers unintentionally.

The iron spreading roller has a slight knurl permitting the transport of the adhesive to be transfered to the material; the access to the roller is protected by a plexiglass fixed barrier A (picture 2)

Be careful during the introduction of the material so to avoid the touch, also casual, to the rollers (picture2).

In case of user's error, the material is inserted in a wrong way, don't try to correct the direction, but grasp it when it comes out the machine and repeat the operation beeing more careful.

The constructor recommends the use of gloves or of any other grasping tools (pliers, etc.), so to protect the operator's hands from possible burnings.



PICT 2.

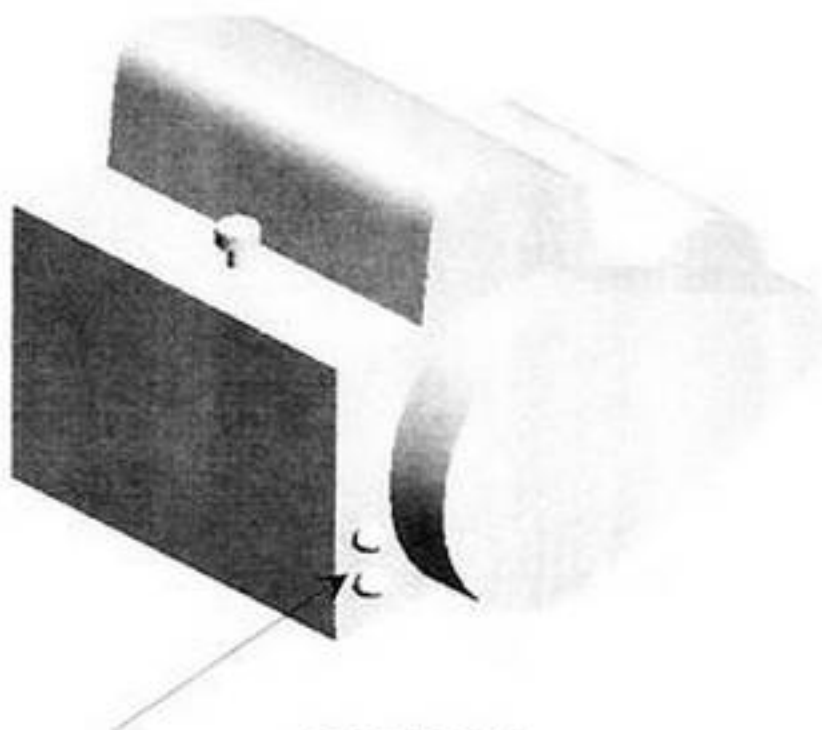
Dangers caused by the presence of fumes and vapours.

In the posterior left side of the machine there are two 8 MA holes, to them, if necessary, the suction system can be fixed by means of the special hanger (picture 2 bis).

The constructor has prearranged the only holes for the hanger, to that it's possible to fix the suction device, without knowing a priori which kind of solvent adhesive the user intends to use.

The user has to inquire by the adhesive producers about the toxicity level of the used adhesive and about the necessity of a suction system. The suction system has to be connected to a centralized suction system. The volume of sucked air must be proportional to the kind of the adhesive, utilized by the user and to its toxicity.

If the factory, where the cementing machine is placed, is not equipped with a centralized suction system, the constructor can supply the machine with an aspirator, situated near the spreading roller and whose dimensions permit to it to be effective with the adhesives, usually utilized in the footwear industry. If the user wants to equip the machine with a suction system, buying it by the constructor, he has to specify in the purchase order the kind of adhesive he uses and the suction capacity he needs. In case of lack of specific information, the constructor will supply the suction system with the standard suction capacity (see pag. 8).



PICT 2-BIS

-WARNINGS:

1. Only technical-instructed staff or qualified operators in good health are allowed to use the machine.
2. Machines with three phase motor, after their connection with the feeding line, could operate with a reverse rotation; in this case the user has to check, if the rotation direction of the motor fan corresponds to that indicated by the arrow, situated near the motor.
3. The machine has been built to be used in footwear, leathersgoods and paper-working factories; therefore its use is forbidden in work environments with explosion dangers or exposed to bad weather (frost, rain).
4. By this machine can be used only the adhesives, whose use is provided for by the adhesive producers for the above -mentioned sectors (footwear, leathersgoods, paper-industry). The adhesives, producing explosive vapours, are not allowed.
5. The user has to be dressed adequately; don't wear large clothes or jewels and use specific hair-net in case of long hair.

2. TECHNICAL PECULIARITIES OF THE MAV 3230 CEMENTING MACHINE

MAV	3230
Width	600 mm
Length	600 mm
Height	1200 mm
Headstock Weight	28 Kg
Weight on stand	46 Kg
Useful cementing width	230 mm

Three-phase motor 380/50 Hz

-power of the electric asynchronous three phase motor.

-feeding voltage 380 Volt

-tip speed of the rollers 13 m/minute

Direct current motor with variable speed:

MAV	3230
Power of the electric three phase motor	0.33 Hp
Power of the electric single phase motor	0.25 Hp

-feeding voltage 380 Volt or 220 Volt , as required by the client (the client can require any other voltage)

-minimum tip speed of the rollers 1,5 rev/minute

-maximum tip speed of the rollers 16.5 rev/minute

Motor for the suction hood (optional)

kw	Rev/min	Air quantity	Speed	Insulation	Protection grade	Volt
0,10	2800	230 mc/h	14 m/sec	class F	IP 44	380

3. PROPER AND IMPROPER USE OF THE MACHINE

The cementing machine MAV 3230 has been built and planed to be used in the footwear, leathergoods and paper-working industry to cement materials by means of solvent adhesives.

This machine is usually used in the footwear sector to cement parts of footwears and in leathergoods. It can also cement any other material or edges with a maximum width of 230 m/m.

This machine can cement a lot of materials: leather, fabrics, paper, etc.. The constructor has planed this machine to be used only in the above-mentioned sectors and therefore to cement materials, usually used in the production of footwears, leathergoods and materials employed in the paper-working industry.

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4. HANDLING AND TRANSPORT OF THE MACHINE

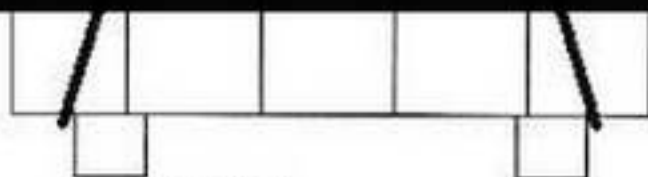
The MAV 3230 cementing machine, sold supplied complete with stand, can be leant on a pallet or sent packed into a wood box. The handling of the machine can be made by means of a shunter, but only after having fastened the machine to the pallet.

For this reason, at the base of the stand, the machine has four holes, permitting to fix the cementing machine to the pallet by means of four M10 screws. Each of these screws has to be inserted in the holes at the base of the machine stand and to be fixed to the wood pallet, as indicated in picture 3.

If the machine is packed in a box, it can be moved by means of ropes, as indicated in picture 2.

Sometimes, for short hauls, the machine is sent without packing and winded in cellophane. In this case the constructor recommends the presence of two persons at least to move the machine. After having been loaded it on the means of transport, the machine has to be laid

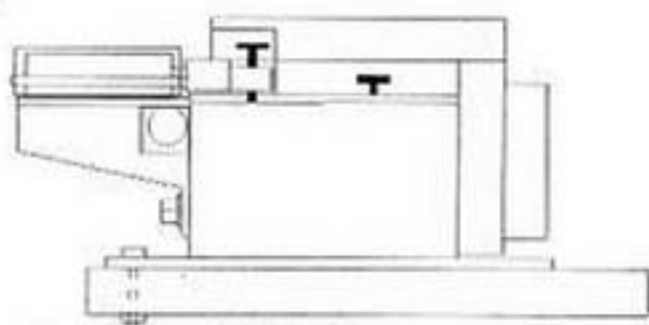
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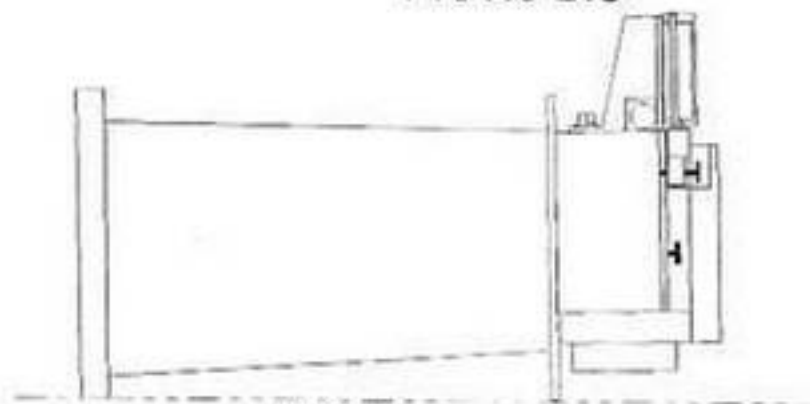
PICT.3



PICT.3-BIS



PICT.4



PICT.4-A

5. INSTALLATION OF THE MACHINE

5.1 Overall dimensions of the machine

In pictures 5, 6, are indicated the maximum overall dimensions of the MAV 3230 cementing machine.

MAV	3230
A	600 mm
B	600 mm
C	1200 mm

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5.2 Installation plan of the MAV 3230 CEMENTING MACHINE

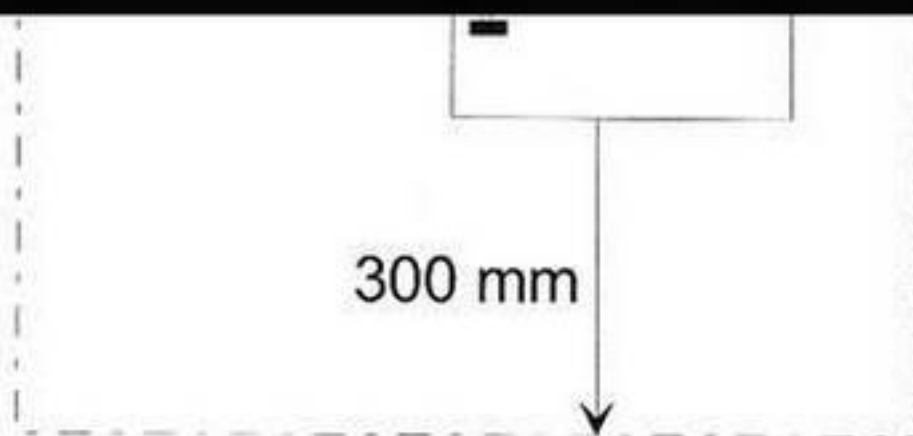
For a good working of the cementing machine, it is not necessary to fix it to the ground.
The suction hood (if it is required) has to be connected to a centralized suction system.

The quantity of sucked air depends on the kind of the used adhesive.

If the user's factory isn't equipped with a centralized suction system, the constructor can supply a suction position system of different dimensions in conformity with the buyer's requirements. Binding for the dimensions of the suction system is the specification of the kind of adhesive and of the suction capacity, required by the user.

5.3. Free spaces

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PICT.7

6. ASSEMBLY AND SET UP OF THE MACHINE FOR ITS STARTING

The machine is entirely assembled and tested by the constructor's factory.

6.1 Checks and preventive verifications

By the receiving of the machine the constructor advises to control it as follows.

6.1.2 Control of the possible damages caused to the machine.

To find possible damages, caused to the machine during its transport, check the integrity of the following parts:

- protection systems, plexiglass screens, carter
- Electrical components, switch set on the motor, feeding cable, plug

6.1.2. Machine cleaning

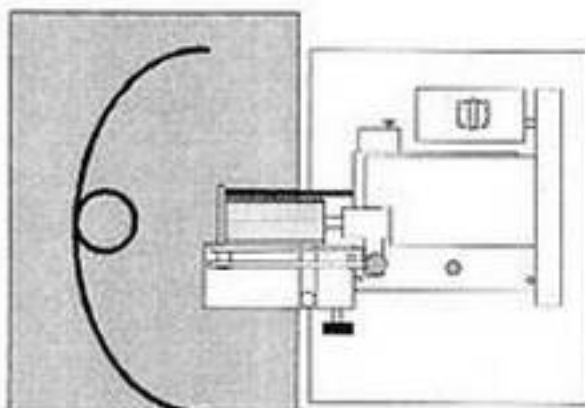
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To verify the right rotation direction, operate as follows:

- Connect correctly the machine to the line voltage.
- Set the selector of the GENERAL SWITCH on 1
- Verify if the rotation direction corresponds to that indicated by the arrow situated near the spreading roller.
- Operate on the wires of the plug to reset the correct rotation direction.

7. STARTING AND USE OF THE MACHINE.

The machine has a working position for the user (picture 8)



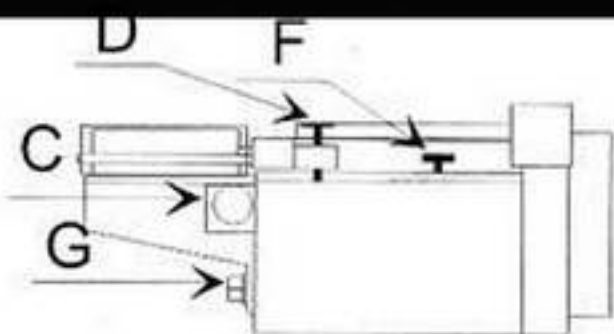
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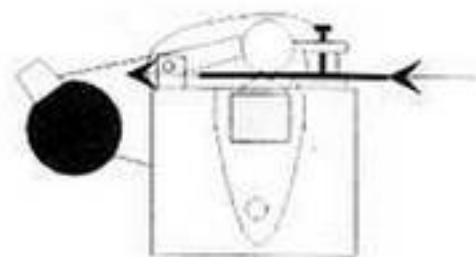
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PICT.9



PICT.10

NOTES:

If the user has to cement straps or edge, he has to regulate the width according to the kind of material to be cemented.

8.2. Adhesive feed.

It is seldom necessary to verify if the adhesive quantity in the machine is enough to permit a correct working of it. To verify the adhesive quantity, operate as follows:

- Screw out the knobs that close the cap of the adhesive tank and lift it up by means of the knob F of picture, so to verify if there is some adhesive in it.
- If there isn't enough, pour the quantity you need paying attention to the new level; it mustn't be higher than the smallest part of the tank, see picture 11, because the adhesive could come out from the frontal part, where there is the spreading roller.

LIVELLO COLLANTE MAX

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motion.

5. Rescrew the plug and restore the adhesive level, paying attention to the new level, that mustn't be over the one indicated in picture 11

WARNINGS:

- Don't scatter absolutely in the surrounding environment the adhesive recuperated after the cleaning operation (if it is dirty and unusable) and the water used to clean the tank, but deliver them to factories specialized for the elimination of such substances.

9 MAINTENANCE AND CLEANING.

9.1. Maintenance.

The mechanical parts in motion inside the machine needn't any lubrication. Chain gearings are lubricated by the constructor and they needn't further interventions. The constructor advises to check yearly wear condition of pinions and chains transmitting the motion to the spreading roller and to the transport roller.

9.2. Machine cleaning

The necessity of the machine cleaning depends on the kind of adhesive, chosen in

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The machine parts subjected to wear are listed below. The constructor recommends to keep these components in stock.

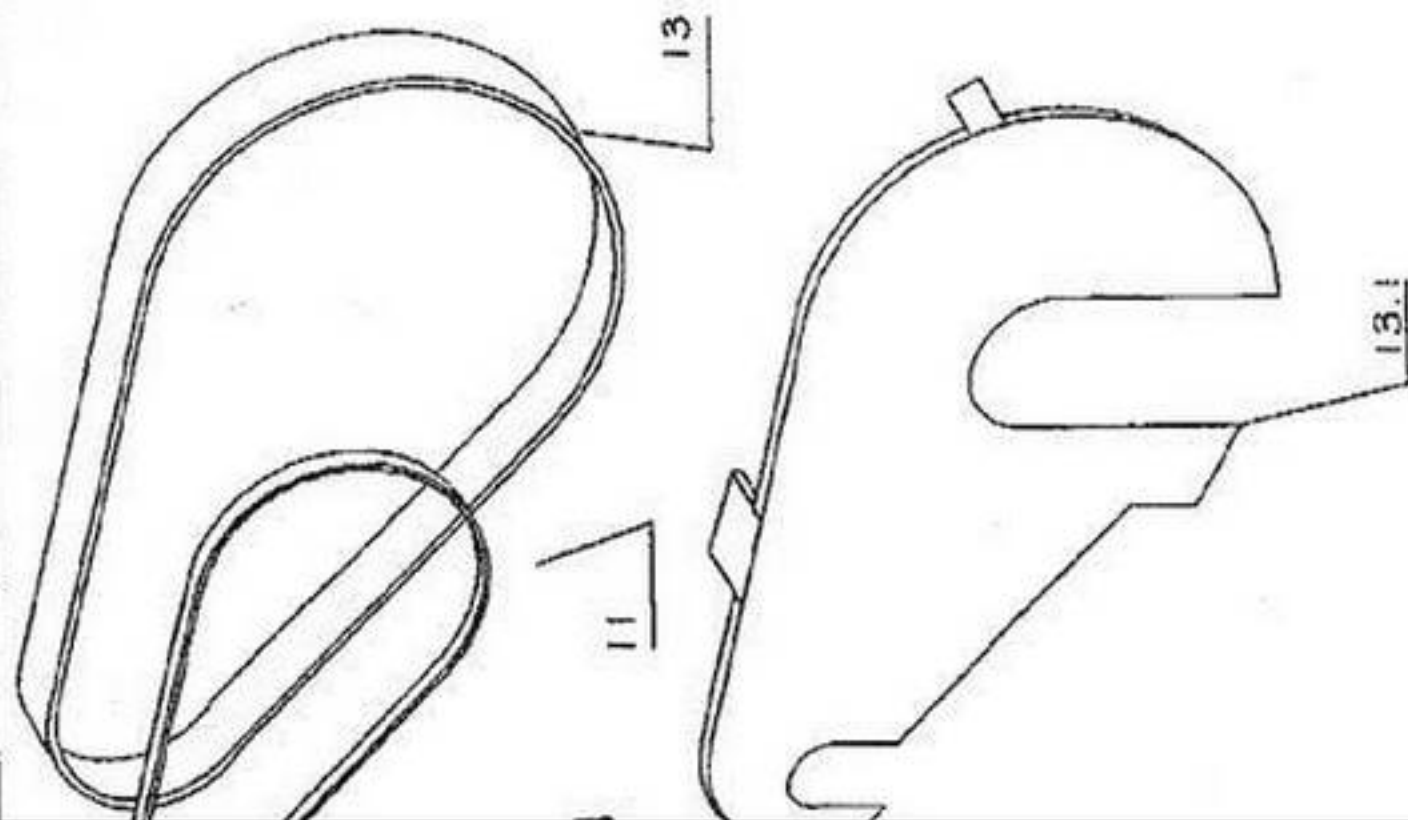
	Machine parts	Code number
n°1	Scraper-regulator	MAV3230/143144
n°1	Composite fibre gear	MAV3230/20
n°1	Belt Z30	MAV3230/11

10 DISMALTING OF THE MACHINE 3230.

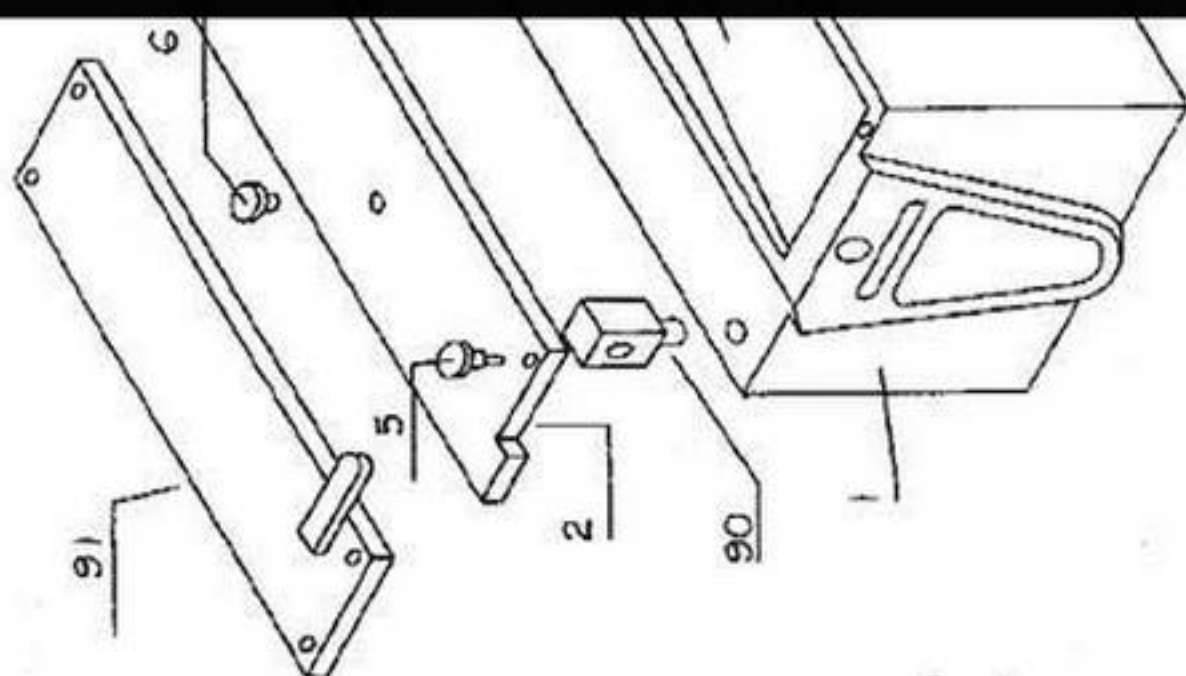
If the user wants to disable the machine, he has to respect some basic norms, so to protect our health and the environment where we live

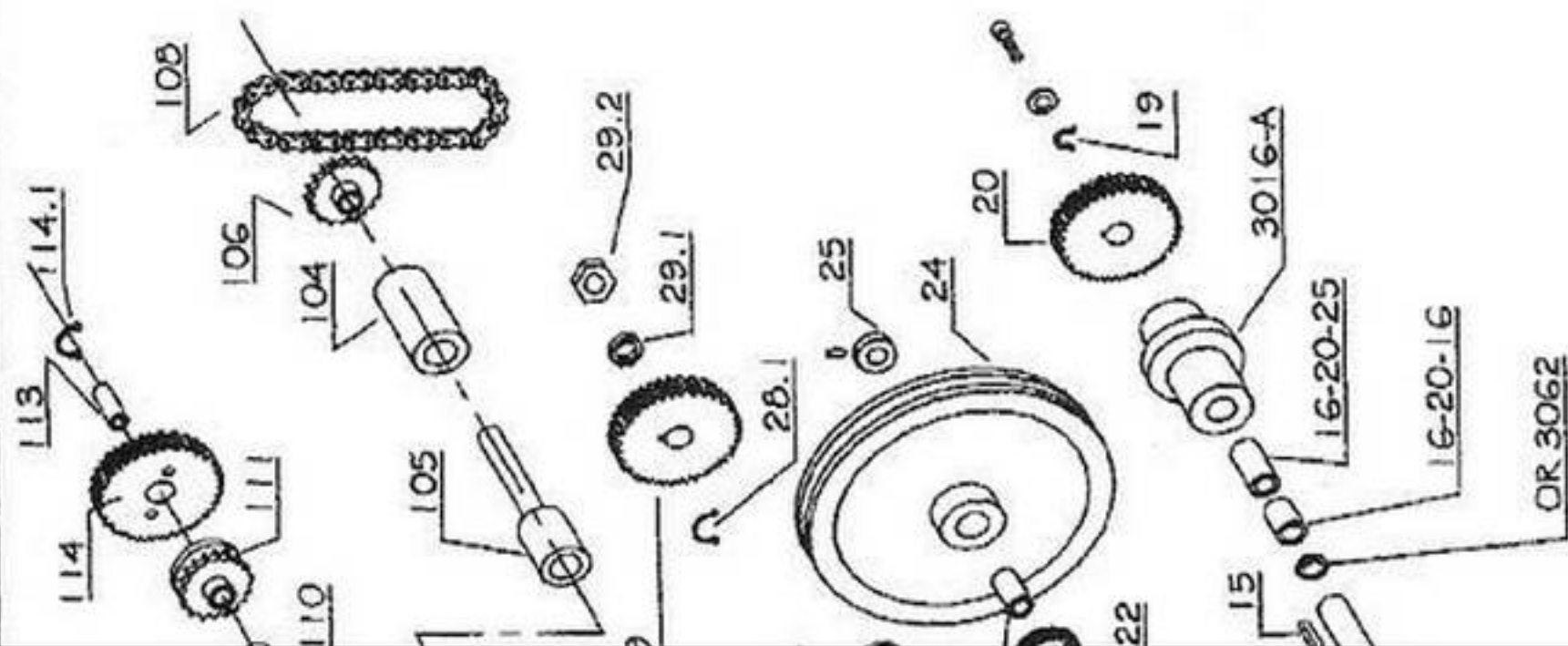
- empty entirely the adhesive tank, as explained at the paragraph 8.3. of this manual. Gather the adhesive, that has not to be scattered in the surrounding environment, but to be treated by industries, specialized for the elimination of such substances.
- gaiters, plastic material components have to be disassembled and eliminated separately.
- electrical components, like motor and switches (circuit breakers), have to be disassembled for their reusing in case they are in good conditions or to be overhauled and recycled.

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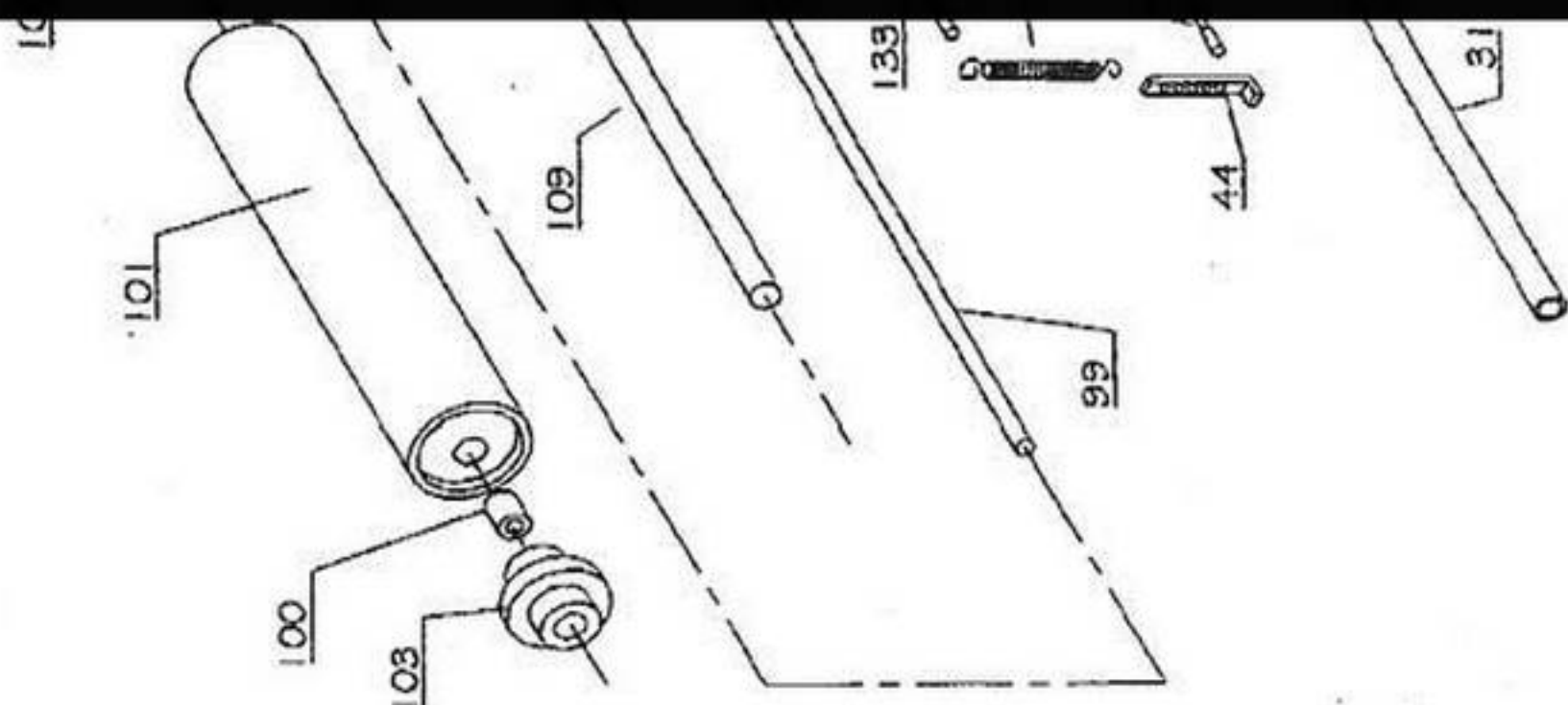


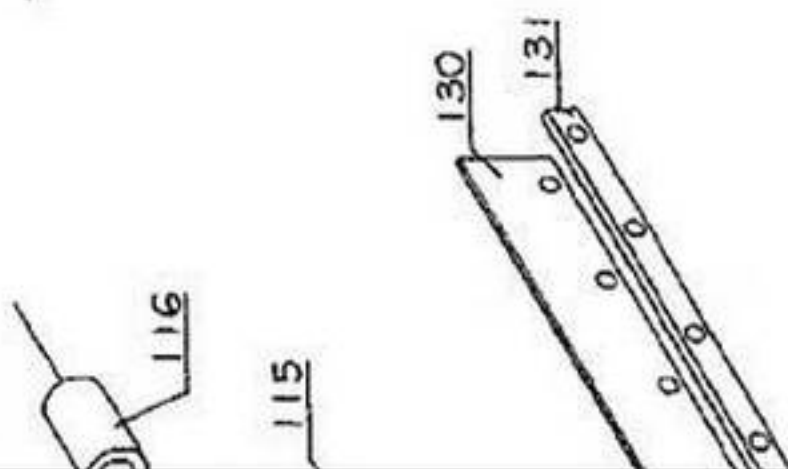
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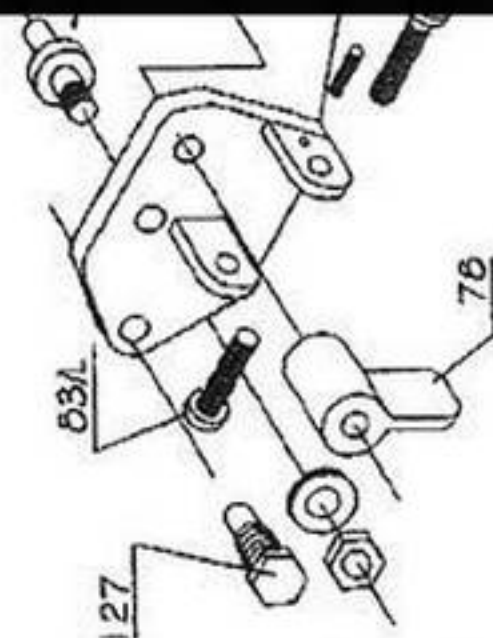
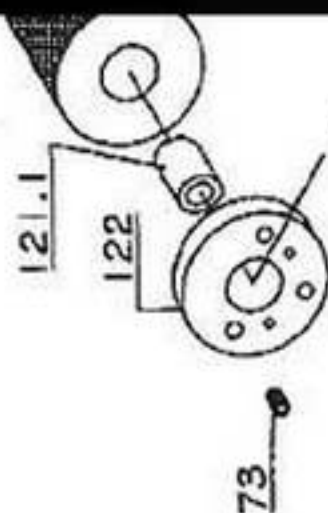
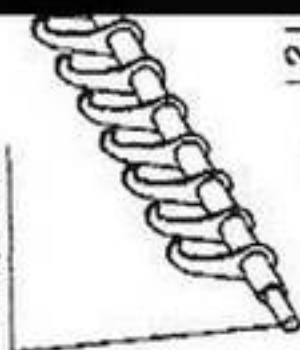
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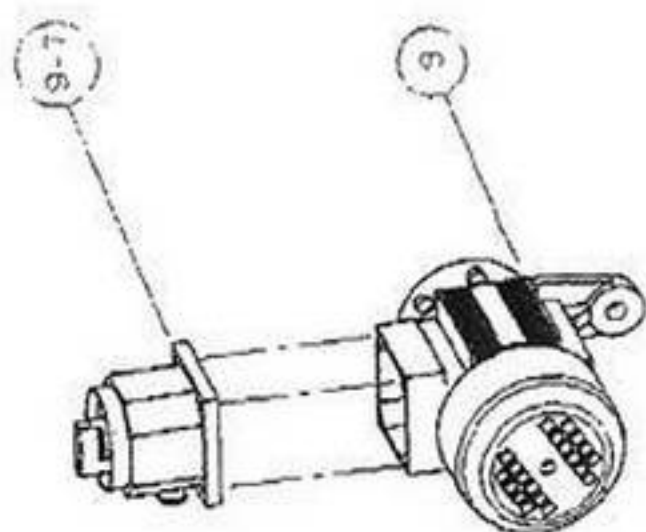
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119/3140
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INTERRUTTORE EXTRA CE
EXTRA CE SWITCH



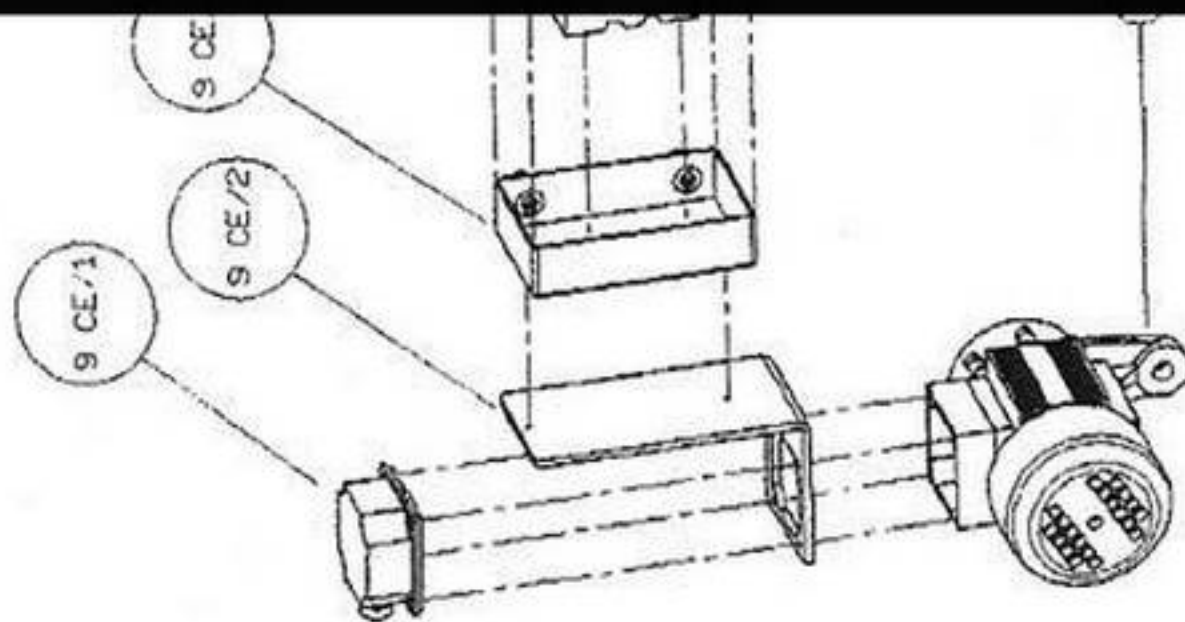
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04

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INTERRUTTORE
CE SWITCH



Codice Pezzo	Pag.	N°	Descrizione
MAV 3140-230-350-1	1	1	Basamento
MAV 3140-230-350-2	1	2	Coperchio anteriore
MAV 3140-230-350-5	1	5	Volantino
MAV 3140-230-350-6	1	6	Volantino
MAV 3140-230-350-8	1	8	Supporto motore
MAV 3140-230-350-9	1	9	Motore
MAV 3140-230-350-9-A	1	9-A	Bullone fissaggio motore
MAV 3140-230-350-10	1	10	Puleggia motore
MAV 3140-230-350-11	1	11	Cinghia trapez. Z.30
MAV 3140-230-350-12	1	12	Carter copri ingranaggi
MAV 3140-230-350-13	1	13	Carter per cinghia
MAV 3140-230-350-13.1	1	13.1	Carter il lamiera per cinghia

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MAV 3140-230-350-91	2	92	Albero per rullo spalmatore
MAV 3140-230-350-92	2	93	Chiavette
MAV 3140-230-350-93	2	94	Forcella in bronzo
MAV 3140-230-350-94	2	95	Braccio
MAV 3140-230-350-95	2	95.1	Bussola
MAV 3140-230-350-95.1	2	95.2	Bussola
MAV 3140-230-350-95.2	2	96	Asta per cursore
MAV 3140-230-350-96	2	97	Cursore
MAV 3140-230-350-97	2	98	Anima in ferro per rullo sup
MAV 3140-230-350-98	2	99	Alberino trascinamento rullo sup.
MAV 3140-230-350-99	2	100	Bussola rullo superiore
MAV 3140-230-350-100	2	101	Rullo superiore per Mav3140
MAV 3140-101	2	101	Rullo superiore per Mav 3230
MAV 3230-101	2	101	Rullo superiore per Mav3350
MAV 3350-101	2	102	Bussola rullo superiore
MAV 3140-230-350-102	2	103	Tappo per rullo
MAV 3140-230-350-103	2	104	Bussola aut. Per braccio
MAV 3140-230-350-104	2		

Distinta 3140-230-350.xls

Codice Pezzo	Pag.	N°	Descrizione
MAV 3140-230-350-105	2	105	Perno per trascinamento rullo sup.
MAV 3140-230-350-106	2	106	Pignone dentato
MAV 3140-230-350-108	2	108	Catena
MAV 3140-230-350-109	2	109	Albero sostegno braccio
MAV 3140-230-350-110	2	110	Bussola distanziale
MAV 3140-230-350-111	2	111	Ingranaggio con collare
MAV 3140-230-350-113	2	113	Particolare-bussola
MAV 3140-230-350-114	2	114	Ingranaggio
MAV 3140-230-350-111-113-114	2	111-113-114	Ingranaggio acciaio + pignone
MAV 3140-230-350-114.1	2	114.1	Seeger
MAV 3140-230-350-128	2	128	Carter braccio copri catena
MAV 3140-230-350-132-133	2	132-133	Protez. antinf. per Mav3140
MAV 3140-230-350-132-133	2	132-133	Protez. antinf. per Mav3230
MAV 3140-230-350-132-133	2	132-133	Protez. antinf. per Mav3350
MAV 3140-230-350-5988	2	5988	Piastrina micro
MAV 3140-230-350-5990	2	5990	Micro di sicurezza (Finecorsa Pizzato FF4615)
MAV 3140-230-350-63	3	63	Tappo scarico colla
MAV 3140-230-350-73	3	73	Molla per rasamento
MAV 3140-230-350-74	3	74	Perno per rullo zigrinato
MAV 3140-230-350-78	3	78	Levetta per pettine
MAV 3140-230-350-83-C	3	83-C	Vite corta regolazione pettine
MAV 3140-230-350-83-L	3	83-L	Vite lunga regolazione pettine
MAV 3140-115	3	115	Musone per Mav 3140
MAV 3230-115	3	115	Musone per Mav 3230
MAV 3350-115	3	115	Musone per Mav 3350
MAV 3140-230-350-116	3	116	Bussola autolubrificante
MAV 3140-230-350-117	3	117	Coperchietto
MAV 3140-119	3	119	Rastrelliera per Mav 3140
MAV 3230-119	3	119	Rastrelliera per Mav 3230
MAV 3350-119	3	119	Rastrelliera per Mav 3350
MAV 3140-230-350-120	3	120	Ranella temperata per rulli
MAV 3140-121	3	121	Rullo zigrinato per Mav3140
MAV 3140-121	3	121	Rullo zigrinato per Mav3230
MAV 3350-121	3	121	Rullo zigrinato per Mav3350
MAV 3350-121.1	3	121.1	Bussola
MAV 3140-122	3	122	Ranella temperata per rulli
MAV 3140-78-123-124-125	3	78-123-124-125	Pettine completo Mav3140
MAV 3140-78-123-124-125	3	78-123-124-125	Pettine completo Mav3230
MAV 3140-78-123-124-125	3	78-123-124-125	Pettine completo Mav3350
MAV 3140-126	3	126	Piastra anteriore musone
MAV 3140-127	3	127	Bottone filettato
MAV 3140-130	3	130	Lamina copri-pettine per Mav 3140
MAV 3230-130	3	130	Lamina copri-pettine per Mav 3230
MAV 3350-130	3	130	Lamina copri-pettine per Mav 3350
MAV 3140-131	3	131	Piastra per lamina Mav3140
MAV 3230-131	3	131	Piastra per lamina Mav3230
MAV 3350-131	3	131	Piastra per lamina Mav3350