

S 420 - S 430
S 520 - S 530



**OPERATION AND
MAINTENANCE INSTRUCTIONS**



Atomizzatori e Impolveratori

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Mounted Duster

S420 - S430

S520 - S530

Model:

Serial Number:

(Publication N° LUM-S4S5-04-EN)

OPERATION AND MAINTENANCE INSTRUCTION

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ADDITIONAL RECORDS AND VARIANTS

REVISION	DESCRIPTION
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01	Second Edition, December 2001
02	Third edition, January 2003
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04	Update, January 2013
05	
06	
07	
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09	

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1.1 - CHECKS TO BE CARRIED OUT AT MATERIAL RECEPTION

At reception of the machine, make sure that this one is complete and in good condition in every part. If any damaged parts are found out, timely inform about that the machine Distributor, or directly contact C.I.M.A. SpA.

Upon receipt of the machine, expressly verify the following conditions:

- that the machine is delivered assembled in all its parts, and that the equipment fully complies with the requested configuration;
- that all the protections are both present and firmly fastened;
- that the oil level inside the multiplier is correct;
- that the fan, the fan protection casing or other parts of the machine ARE NOT damaged because of any bumps suffered during the transport.

1.2 - PUBLICATION IDENTIFICATION

The "OPERATION AND MAINTENANCE INSTRUCTIONS" manual is an integrative part of the dusters. It is identified by a Publication No. located on the frontispiece, and through which the document can be identified, traced and/or subsequently referred to.

The information elements contained herein are updated as at the date of publication. C.I.M.A. S.p.A. reserves the right to modify its machines without notice, with the purpose of applying technical enhancements, and it declines all responsibility for possible omissions from the publication. All right reserved. No parts of this book may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without permission in writing by C.I.M.A. S.p.A.

1.3 - ATTACHED PUBLICATIONS

- Spare parts catalogue.

1.4 - PURPOSE OF PUBLICATION

All indications contained in this manual are aimed at the user of the duster.

The duration of the machine and its operation, the operator's safety and the respect for the environment are dependent upon scrupulous observance of the stated norms.

Before making use of the duster, the user must read, understand and abide by all regulations listed in this manual.

1.5 - REFERENCE TO REGULATIONS

This manual was set out conforming to the regulations contained in following documents:

- Directive 2006/42/CE: Attachment 1 point 1.7.4;
- UNI 10653: Technical Documentation;
- UNI 10893: Technical Documentation.

1.6 - USING THE MANUAL

Read every part of this manual, paying attention to the **WARNING** and **DANGER** indications both on the text and on the machine or on components.

All operations suggested by the manual will have to be followed with the utmost care and only after having understood the negative consequences of improper usage.

The following “**symbols** “ are used within the text in order to highlight and visually identify the importance of the various types of information:



Indicates important additional information.



Non observance can result in permanent damage to the duster.



Highlights possibly dangerous situations to people.

The manual, with relevant attachments and possible integrating issues, must be kept with the utmost care and must always be complete, integer and legible in every part. Should it be mislaid it is imperative to immediately request a duplicate from C.I.M.A. S.p.A. Should the decals originally applied on the machine be mislaid, damaged or become incomprehensible, they should be promptly replaced.



- The manual must always be kept for the duster's whole operational life.
- Any modification received must be permanently inserted in this publication.
- The manual must be ceded with the duster should this be sold.

1.6 - UPDATES

ossible updates that C.I.M.A. S.p.A. will provide the owner of the duster will be accompanied by instructions to insert in this publication.

Should the machine be sold, the owner must inform the new purchaser that he should notify C.I.M.A S.p.A. of his address in order to receive possible future integrating issues and/or updates.

2.1 - TERMINOLOGY

The terms FRONT, REAR, RIGHT and LEFT utilised in this publication refer to the duster as seen by an operator from behind the operative unit along the drive line and facing it: **the rear part** of the machine is that closest to the operator - and is where the distribution device (Head) is mounted - and **the front part** is the one that gets attached to the tractor.

2.2 - ABBREVIATIONS

cm	centimetres
g	grams
h	hour
ha	hectare
ha/h	hectare per hour
HP	horse power
l	litres
l/h	litres per hour
l/min.	litres per minute
kg	kilogram
kg/cm ²	kilograms per square centimetre (atmosphere)
km	kilometre
km/h	kilometres per hour
kW	kilowatt
Lm	width in metres
m	metre
m ³ /h	cube metres per hour
m/s	metres per second
Mesh	N° of meshes per linear inch
Micron	1/1000 of millimetre
mm	millimetre
PTO	power take-off
RPM	revs per minute
s	seconds

2.3 - DECALS

The safety and use/maintenance decals applied to the machine are described in the following paragraph.



Every decal is marked with its part number, in case it needs to be replaced.

The arrangement of the adhesives on the machine is shown in the following pictures.

Safety decals



95001

- STOP THE ENGINE AND REMOVE THE KEY FROM THE TRACTOR'S CONTROL PANEL BEFORE CARRYING OUT ALL MAINTENANCE OR REPAIR OPERATIONS
- CONSULT THE USER AND MAINTENANCE MANUAL BEFORE USING OR INTERVENING ON THE MACHINE



95011

- STOP THE ENGINE AND REMOVE THE KEY FROM THE TRACTOR'S CONTROL PANEL BEFORE CARRYING OUT ALL OPERATIONS ON THE DUSTER.
- IT IS FORBIDDEN TO GET INTO THE TANK!



95005

- DANGER, PARTS IN MOTION. BEFORE REMOVING PROTECTION GUARDS, STOP THE TRACTOR, REMOVE THE KEY FROM THE TRACTOR'S CONTROL PANEL AND ENSURE THAT ALL MOVING PARTS HAVE STOPPED



95010

- MAXIMUM OPERATING SPEED OF THE DRIVE OUTLET (PTO): 540 RPM



95006

- CONSULT THE USER AND MAINTENANCE MANUAL BEFORE USING THE MACHINE

Use and maintenance decals



95057

- SOFTLY ENGAGE THE PTO;
- FAN START-UP MUST BE GRADUAL



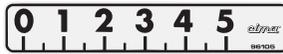
95059

- HOOKING POINT FOR THE LIFTING OF THE MACHINE



95053

- GREASE EVERY 50 HOURS: FELT POWDER SEAL

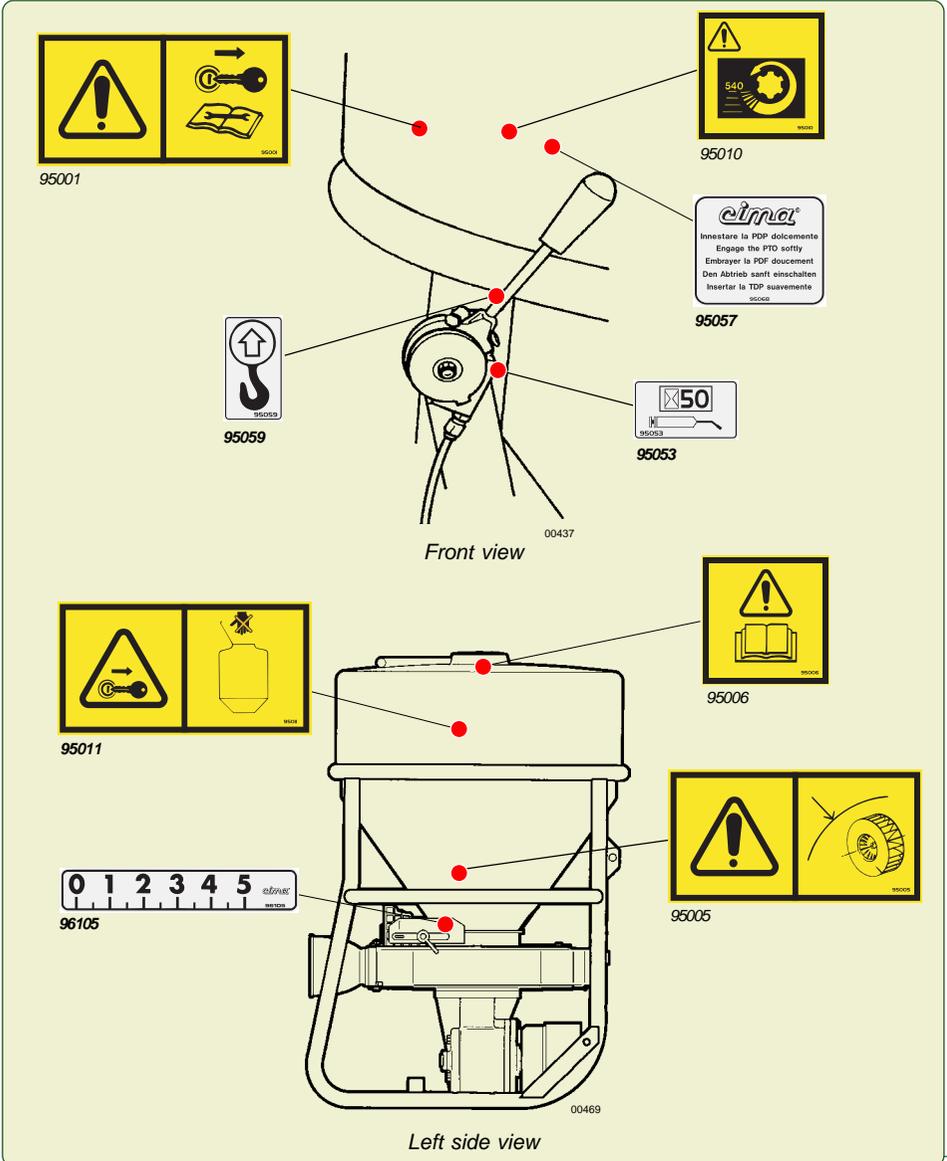


96105

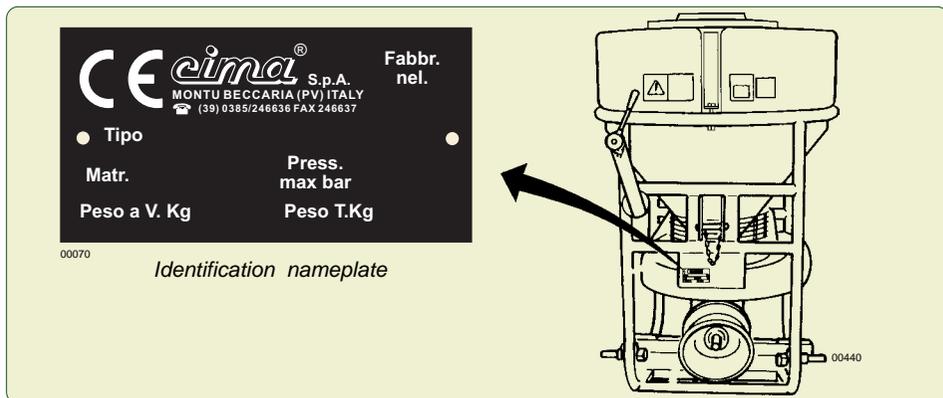
- DELIVERY GRADUATION

Positioning of the safety, use and maintenance decals

NOTE: The numbers with the asterisk (*) indicate the adhesives relevant either to optional components or to accessories to be applied **ONLY** on the models and versions on which this is foreseen.



3.1 - MACHINE IDENTIFICATION



3.2 - TECHNICAL ASSISTANCE

C.I.M.A. S.p.A. is at the complete disposal of customers for any type of intervention. The names and addresses of its service network, both in Italy and in foreign countries, can be requested from:

C.I.M.A. S.p.A. - 27040 Montù Beccaria - Loc. Molino Quaroni (PV) - ITALY
 tel. +39-0385-246636 - fax +39-0385-246637
 e.mail service@cima.it

3.3 - SAFETY NOTICES

3.3.1 - General



The personnel appointed to the use of the machine must have acquired an exhaustive knowledge of the same one and of the dispositions contained inside this publication, be able to properly interpret the symbols of the adhesives applied on the machine, and, in addition, perfectly know the safety and the work hygienic rules in force in the country where the machine itself is to be used.

All the preparation, use, maintenance, moving and transporting operations must be carried out of the regulations contained in this publication.



IT IS FORBIDDEN TO UTILISE THE DUSTER FOR PURPOSES OTHER THAN FOR ITS INTENDED USE, AS IT HAS BEEN DEVELOPED EXCLUSIVELY FOR DISTRIBUTING ANTI-MILDEW POWDERS ON AGRICULTURAL CULTIVATIONS.

Use the duster is allowed only during daylight: YOU MAY NOT USE IN NIGHTWORK. ANY USE OTHER THAN THOSE DESCRIBED IN THE USE PERMITTED IS CONSIDERED AS NOT CONFORMING AND THEREFORE IS NOT PERMITTED.

It is necessary to scrupulously abide by the following general norms:

- check that the power of the tractor is compatible with the duster to be used;
- verify that the maximum weight admitted on the three-point hoister of the tractor is compatible with the weights of the duster to be used;



On the identification plate, the full-load weight (PESO T.) of the machine is indicated, measured WITHOUT the distribution device, and WITHOUT the accessories possibly installed.

In order to calculate the weight on the hoister in operative conditions (at full load), add to the weight indicated on the identification plate (PESO T.), the weight of the distribution device which is used (see Chapter 6), the weight of the installed accessories (see Par. 4.7.2) and the 50% of the weight of the used cardan shaft (see the relevant specific manual).

- before utilisation, check the correct tightening and securing of the machine's various components, paying particular attention to the safety protections and to the moving parts;
- only utilise protected cardan shafts provided with CE conformity certification.
Carry out the assembly only if the drive outlets of both tractor and duster are equipped with the protection counter-guard;
- check that the cardan shaft is blocked by the appropriate anti-rotation chains;
- keep people and animals away from the machine before starting it up;
- don't wear articles of clothing that might get caught in moving parts;
- keep to a low speed while negotiating bumps or crossing ditches;
- during the use of the machine, the operator must have a sufficiently good visibility on the working areas, consequently it is recommended to keep both clean and efficient the cab windows and the rear-view mirrors;
- always stop the tractor's engine and actuate the parking brake before carrying out any operation on the duster;
- never leave the machine unguarded, when the key is inserted inside the tractor control panel;



- All of the maintenance and repair operations should be carried out only after having carefully cleaned all the parts of the machine.

3.3.2 - PRECAUTIONS AGAINST THE FIRES

Don't approach either flames or heat sources to the machines. The materials used for manufacturing the machine itself are widely made by oil derivatives: tanks, pipes, tyres, plastic components; besides, the presence of lubricants and of chemical product residuals make them potentially flammable.



- It is forbidden to make weldings if ammonium salts have been used or on parts not perfectly cleaned from any sulphur residuals.

- It is forbidden to use the machine if any free flames are present or in proximity of any incandescent material, fire residuals or glowing fires.

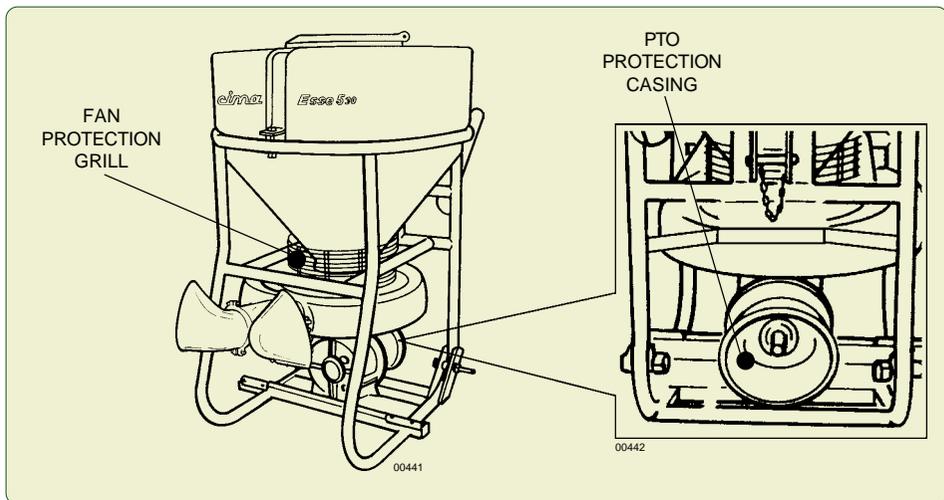
3.4 - SAFETY SYSTEM

All machine moving parts are suitably protected by guards and highlighted through the use of warning decals.



- It is forbidden to use the machine with these guards removed.
- Before removing the protection, stop the tractor's engine and remove the key from the control panel.
- Before beginning the distribution of the product, make sure that the lid is closed.

The pictures illustrate the machine's guarded parts:



THE OWNER AND/OR THE OPERATOR OF THE DUSTER ARE NOT PERMITTED TO MODIFY THE STRUCTURE OR THE SPECIFIC OPERATION OF THE DUSTER ITSELF. ANY REPAIRING INTERVENTION HAS TO BE CARRIED OUT EITHER AT THE DISTRIBUTORS' OR AT THE C.I.M.A. S.p.A. AUTHORIZED WORKSHOPS, OTHERWISE ANY KIND OF WARRANTY IMMEDIATELY CEASES AND C.I.M.A. S.p.A. IS CLEARED OF ANY CONSEQUENT AND/OR IMPLIED RESPONSIBILITY.

3.5 - HANDLING OF AGRO-CHEMICALS

The **operator** may be contaminated either by contact with or inhalation of the products and mixtures to be distributed.

The **environment** may be polluted by the spillage of the products, the careless conservation of empty or unwashed packages, and by pouring the products into the water system.

To avoid these risks, the filling operations should be carried out in suitably prepared and adequately equipped areas, or on the treatment site.



To use agro-chemicals (purchase, transport, loading, treatment planning, quantity preparation, field transfert, treatment performance, ending treatment waste management, equipement rinsing and waste disposal) you must follow the country rules.



Absolutely respect the rules on the label of the product used referring to the dose for hectar and to the compatibility of other products.

3.5.1 - Storage

Fixed / stationary: the site used must be well ventilated and secured by lockable doors in order to prevent even accidental access by children or unauthorised persons.

Mobile: the carrier equipment must be properly locked and kept under conditions whereby access by children or unauthorised persons can be prevented during the absence of the operator. All full or partially utilised containers must be secured against tipping, falling or breakage during transportation. Both types of storage must:

- have a suitable container for the storing of empty packaging materials should a specific storage area not be available;
- have a clean water supply readily available for washing, by means of a specific container or through connection to the waterworks system;
- have the use of fire extinguishers, should flammable products and substances be stored.



- **All packages, whether whole or partially utilised, must be stored in their original packing and with the warning instructions clearly displayed and legible.**
- **The storage indications must always be scrupulously adhered to, as well as their utilisation and possible disposal as suggested on the product's original packaging.**

3.5.2 - Specific equipment

The site at which the preparation and filling out will take place must provide for:

- all the equipment necessary to the precise measuring of both the dose of product to be mixed in the tank at every filling;
- all the equipment and means useful to the preparation of the mixture and for the cleaning of the operator in case of contamination;
- all tools necessary to facilitate the direct introduction of the agro-chemicals in the tank;
- the allocation of clothing and specific equipment in order to avoid contamination by contact or inhalation during the whole operative phase of the intervention.

3.5.3 - Disposal of empty containers and agro-chemicals residues

Agro-chemicals are classified as "special" waste and their disposal must take place separately from "urban" wastes.



Empty packaging and contaminated containers to be done away with cannot be dispersed, burned or buried.

The washing water for the tools utilised for the preparation of mixtures cannot be emptied on the ground, spilled into the sewage system or in waterways and rivers.

The disposal of special wastes is regulated by specific norms. In order to perform this operation it is necessary to obtain the relevant information from the Local Offices specifically appointed to rule on this subject. The non compliance with these regulations can cause considerable damage to persons and animals as well as polluting the environment.

3.5.4 - Personal means of protection

The toxicity of agro-chemicals forces persons working with them to wear adequate protective clothing and accessories in order to avoid risks of contamination by contact or inhalation.



In each of the following work stages:

- filling of tanks and adding of the agro-chemical,
- dusting,
- adjusting of the duster,
- emptying and cleaning of the tank,
- replacement of the agro-chemical,
- maintenance interventions,

it is necessary to wear personal protection clothing and accessories.

The following must be worn:

- Polyethylene or polyvinyl gloves.
- Full, waterproof cotton overalls, in order to guarantee transpiration, fitted with polypropylene side flaps.

In commerce, one-time 'tyvek' overalls are available which, after use (see picture), must be disposed of according to the modalities applicable to toxic waste.

- A protective half-mask in polychloroprene rubber with 1 or 2 filters. Filters for gases and organic fumes, of European A1-class vapours, are envisaged and these can be combined with anti-dust models of P1 European class, for harmful mists and powders, or P2, for harmful and toxic mists and powders.



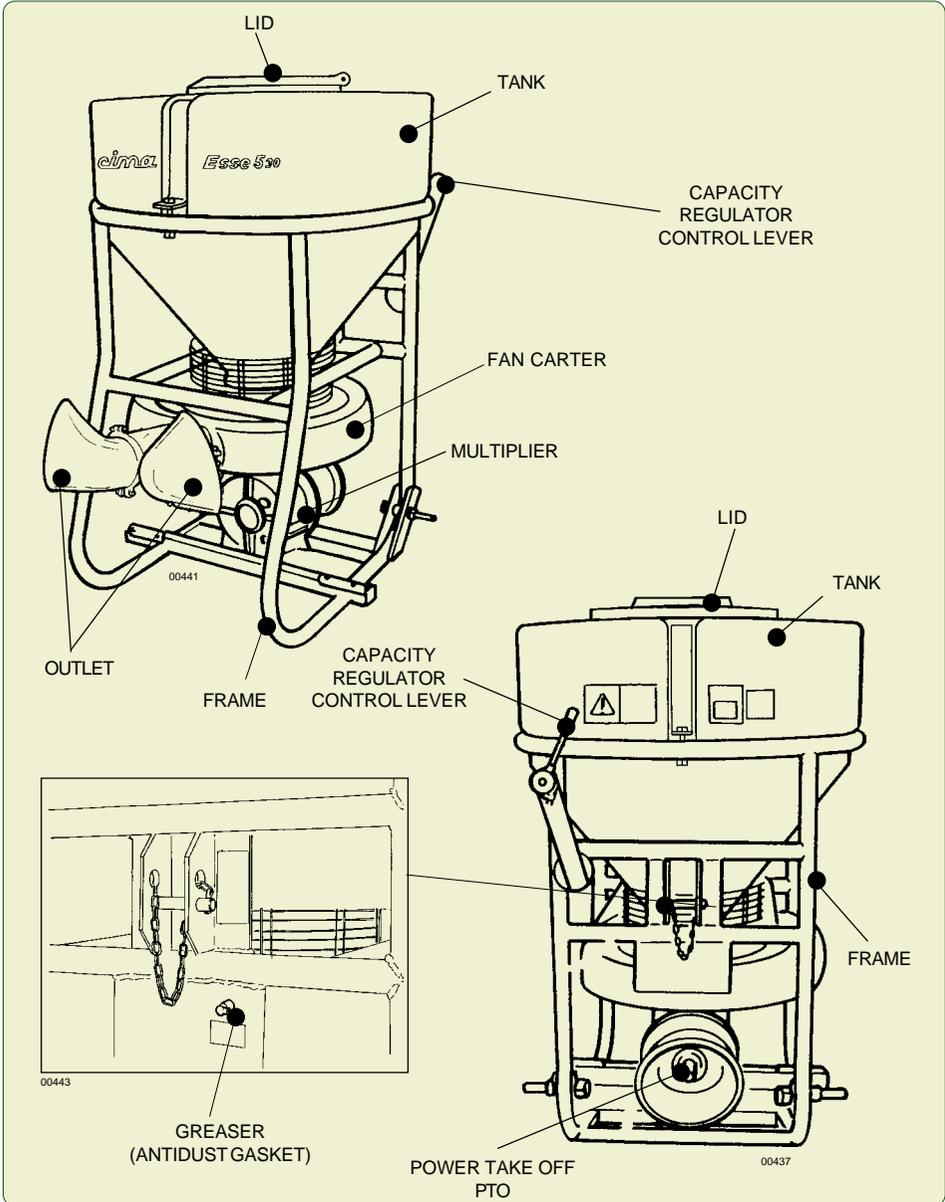
The filters must be replaced:

- when the smell/taste of agro-chemicals can be detected, and that of active A1-class carbons;
- when difficulty in breathing is experienced for the anti-dust filters of class P1 and P2.

In any case it is necessary to make use of all personal means of protection as suggested by the manufacturers.

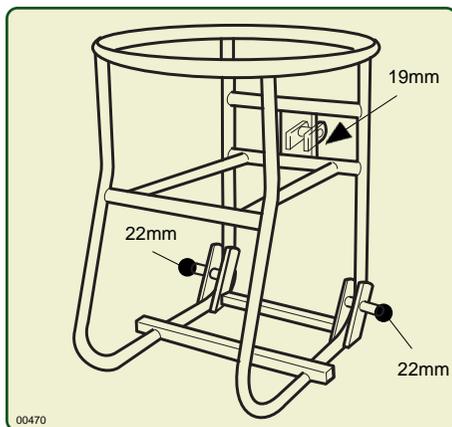
4 MACHINE'S STRUCTURAL ANALYSIS 4

The pictures indicate the position of the main components of the duster.



4.1 - FRAME

The frame may be coupled to hydraulic hoists of class "1". The diameter of the gudgeon is 22mm. The pin of the third point is 19mm. in diameter.

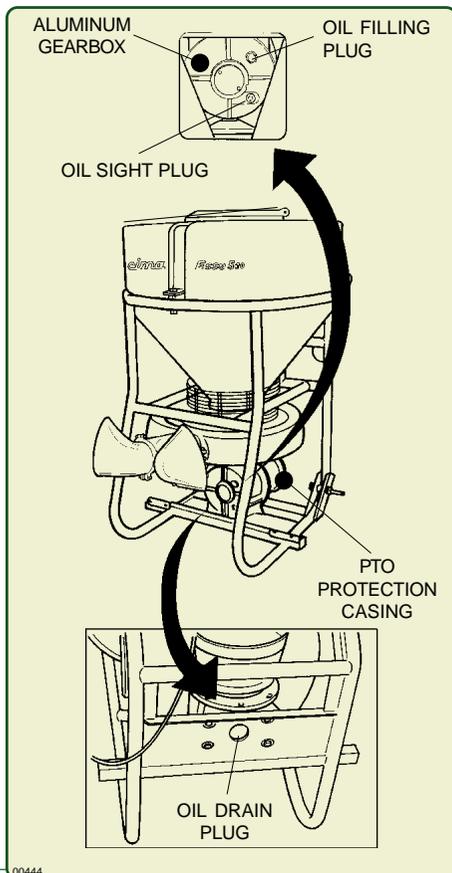


4.2 - MULTIPLIER

- Aluminum **gearbox**. On the side opposite the PdP. It has a sight plug for filling and checking the oil level; at the center there is another service plug to make interventions on the conical couple easier; underneath discharge plug.
- **Conical Couple** with high-tensile steel helicoidal teeth, dimensioned with a wide safety margin that works in oil bath.
- PdP **protection casing** attached on the multiplier cover.

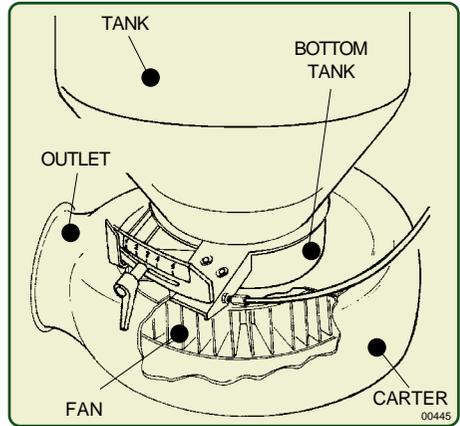


The multiplier should work with PdP at 540 RPM. For a good result of the treatments this condition **MUST ALWAYS BE OBSERVED** during the machine's operation. Utilisation is permitted with speed rates ranging between 500 and 620 RPM.



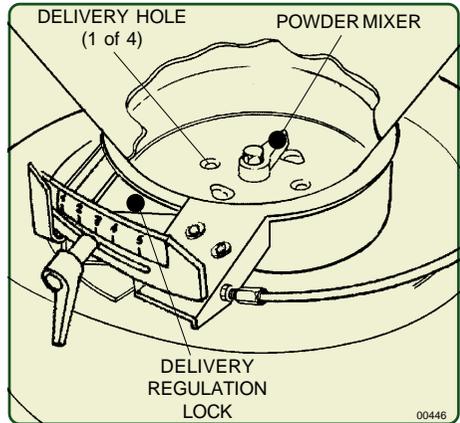
4.3 - FAN

- Aluminum **carter** with rear outlet.
- Centrifuge **fan** enclosed in steel, balanced dynamically.



4.4 - TANK BOTTOM

- It is made of aluminum and has 4 holes to let the powder fall. A distributing mixer controlled by the multiplier rotates. Underneath it, there is a register with 4 holes which allows the adjustment of the powder distribution.
- Between the lid with bush, which attaches the register to the bottom, and the pinion driving the mixer, is a felt seal against powders. Its functionality is guaranteed by a greaser inserted on the lid.



4.5 - TANK

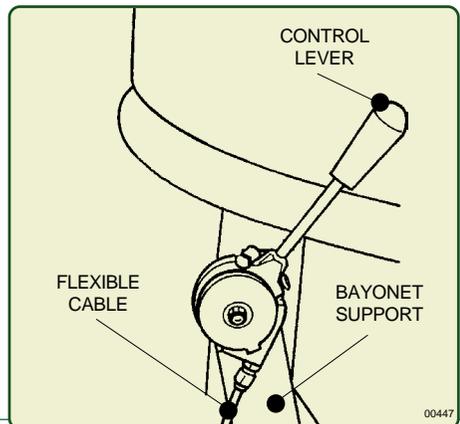
- Realized in polyethylene, the tank is fastened to the machine frame and provided with an overturning plastic cover.

- Before opening the lid, stop the tractor and take the key out of the control panel.
- Check that the lid is closed before starting the tractor again.

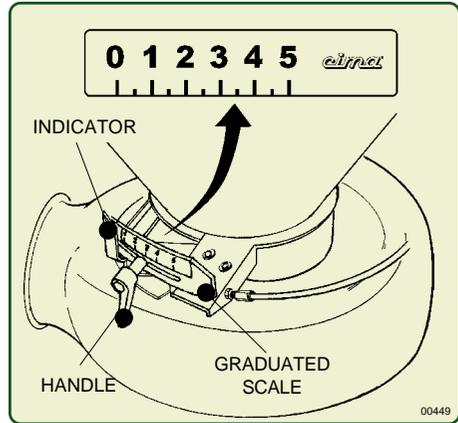


4.6 - CAPACITY REGULATOR

The control lever, which is fastened to the bayonet support through which it can be fastened on the tractor, at operator's reach, is connected to the regulation lock appendix through the actuation flexible cable.



The small square-type indicator slides on a graduated scale from 0 to 5, fixed to the duster frame. It shows the width of the opening of the distribution holes. "0" means full closure, "5" maximum delivery. The handle locks the small square that keeps the opening of the control lever in the desired position.



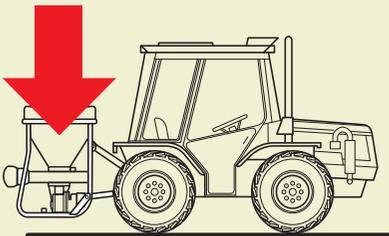
4.7 - TECHNICAL DATA

4.7.1 - Duster dimensions and weights



On the identification plate, the full-load weight (PESO T.) of the machine is indicated, measured **WITHOUT** the distribution device, and **WITHOUT** the accessories possibly installed.

In order to calculate the weight on the hoister in operative conditions (at full load), add to the weight indicated on the identification plate (PESO T.), the weight of the distribution device which is used (see Chapter 6), the weight of the installed accessories (see par. 4.7.2), and the 50% of the weight of the used cardan shaft (see the relevant specific manual).



**TOTAL WEIGHT (PESO T.)
+ SPRAYHEAD WEIGHT
+ ACCESSORIES WEIGHT
+ 50% CARDAN SHAFT WEIGHT**

**= WEIGHT ON THE TRACTOR
THREE-POINT HOISTER**

		S 420	S 430	S 520	S 530
	LENGTH	123 cm	123 cm	123 cm	123 cm
	WIDTH	94 cm	94 cm	94 cm	194 cm
	HEIGHT	118 cm	133 cm	130 cm	135 cm

01145

4.7.2 - Weight of accessories

Description	Code	Weight (kg)
Pair of wheels for Esse 420/430/520/530 With hubs and mud scrapers	T.CPP.RT.01	42,50
Electrical swivelling device	T.GIR.E.175P	11,00
Cardan shaft for Esse 420/430 hp20 x 700 mm with clutch CE	KHP.020.074F	10,50
Cardan shaft for Esse 520/530 hp40 x 800 mm with clutch CE	KHP.043.085F	13,00

01159

4.7.3 - Technical specifications

	S 420	S 430	S 520	S 530
Tank capacities (litres)	200	300	200	300
Tank capacities, with sulphur (kg)	~150	~200	~150	~200
Multiplication ratio	1:5,8		1:5,18	
PTO shaft	1 3/8" SAE DIN 9611/A			
Multiplier Oil - SAE 90 (kg)	1			
Rear outlet diameter (mm)	175			
Fan diameter (mm)	400		500	
Fan speed (RPM)	3130		2800	
Air Flow rate (m ³ /h)	2100		3470	
Air speed (m/sec.)	90			
PTO power absorbed (CV-kW)	8 - 5,9		12 - 8,8	

01146

5.1 - HITCHING TO THE TRACTOR



Check that the tractor's "permissible carried weight" and the "rear overhang allowed" are compatible with the weight and dimensions of the fully loaded duster and complete with equipment mounted for the treatment (see Paragraphs "3.1" - "4.7" and chapter "6").



The tractor's power take-off (PTO), under all utilisation conditions, must provide a power exceeding that absorbed by the duster.

COUPLING POWER WITH TRACTORS OF AT LEAST:

18 CV = 13,2 KW for dusters ESSE 420 and ESSE 430

25 CV = 18,4 KW for dusters ESSE 520 and ESSE 530



For the models ESSE 520 and ESSE 530, the coupling to the tractor **SHALL** be realized by using a cardan transmission shaft equipped with a clutch.



The hitching has to be carried out on a plane surface with a suitable consistency, after having checked that all the people not charged with the operation moved away, as well as the children and the animals possibly present. The road circulation is exclusively allowed in full observation of the rules in force in the country where the machine is to be used, **WITHOUT** having loaded any chemical substances inside the tank.

EXECUTION:

1. Loosen the chains of the lifter arms.
2. AStart the tractor and take the lifter's arms to the level of the machine's pins.
3.   **Stop the tractor and remove the key from the control panel.**

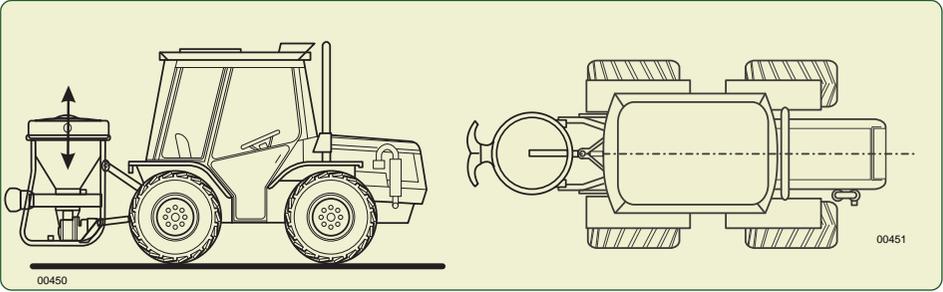
4. Insert the toggle joints on the machine's pegs, locking them with the clip pins.
5. Take the tension rod off of the tractor's 3rd point and locking it with the release pin.
6. Screw the tension rod slightly to put it in tension.
7. Start the tractor and hoist the duster until the 2 PTO are the same height.

8.   **Stop the tractor, remove the key from the control panel and make sure that no one approaches the hydraulic controls of the lifter. NEVER OPERATE OR STAND BENEATH THE MACHINE OR IN THE AREA THAT COULD BE INVOLVED IN ITS SUDDEN LOWERING.**

9. By acting on the 3rd-point rod, vertically align the duster. **N.B.:** block the 3rd-point rod with the specific lock ring.
10. Block the coupling by tightening the chains of the hoister arms.



When the operation is completed the 2 drive outlets (PTO) must be positioned on the same axis, both in vertical and horizontal direction.



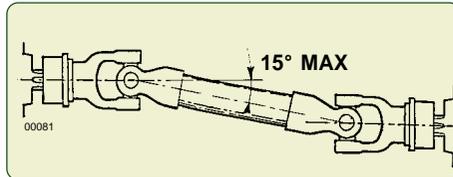
5.2 - MOUNTING OF THE TRANSMISSION SHAFT



USE CARDAN TRANSMISSION SHAFTS WITH CE CERTIFICATION. OBSERVE THE REGULATIONS CONTAINED IN THE USE AND MAINTENANCE BOOK-LET PROVIDED BY THE SHAFT MANUFACTURER.



The cardan transmission shaft must work with the 2 COAXIAL drive outlets (PTO) or, should this not be possible, with the PARALLEL axles. In this case the angle of the joint **MUST NOT EXCEED 15°**.



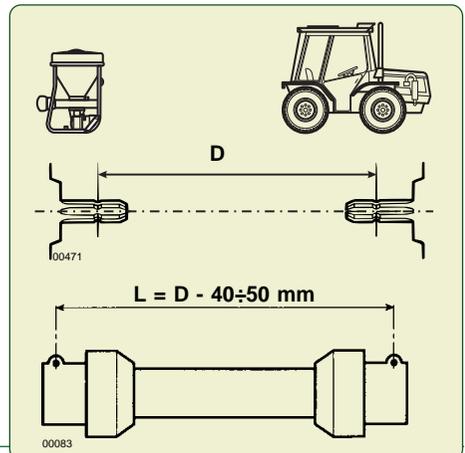
Definition of the length

Set the 2 drive outlets (PTO) perfectly on the same axis and measure the distance "D" between their grooves.

Length "L" of the cardan transmission shaft (refer to the picture) to be deployed, measured between the 2 stopping pawls and with cardan shaft closed, must be 40÷50mm lesser than distance "D".



The mounting, disassembling or possible other interventions on the cardan transmission shaft must be carried out with the engine switched off and with the starter key removed from the tractor's control panel.



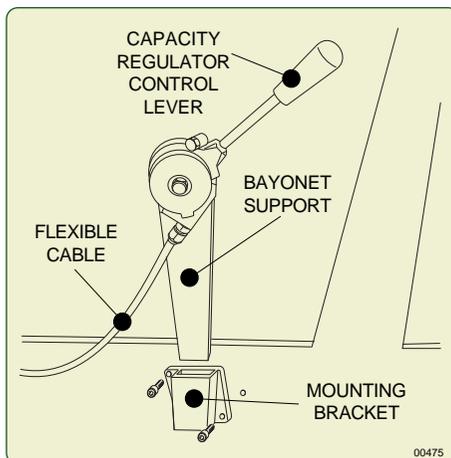
5.3 - INSTALLATION OF CAPACITY REGULATOR CONTROL LEVER

EXECUTION:

1. Mount the securing bracket on the tractor within the driver's reach and position it so that the capacity regulator control lever is fully visible and accessible during use.
- 2 - Insert the control lever's bayonet support in the securing bracket.



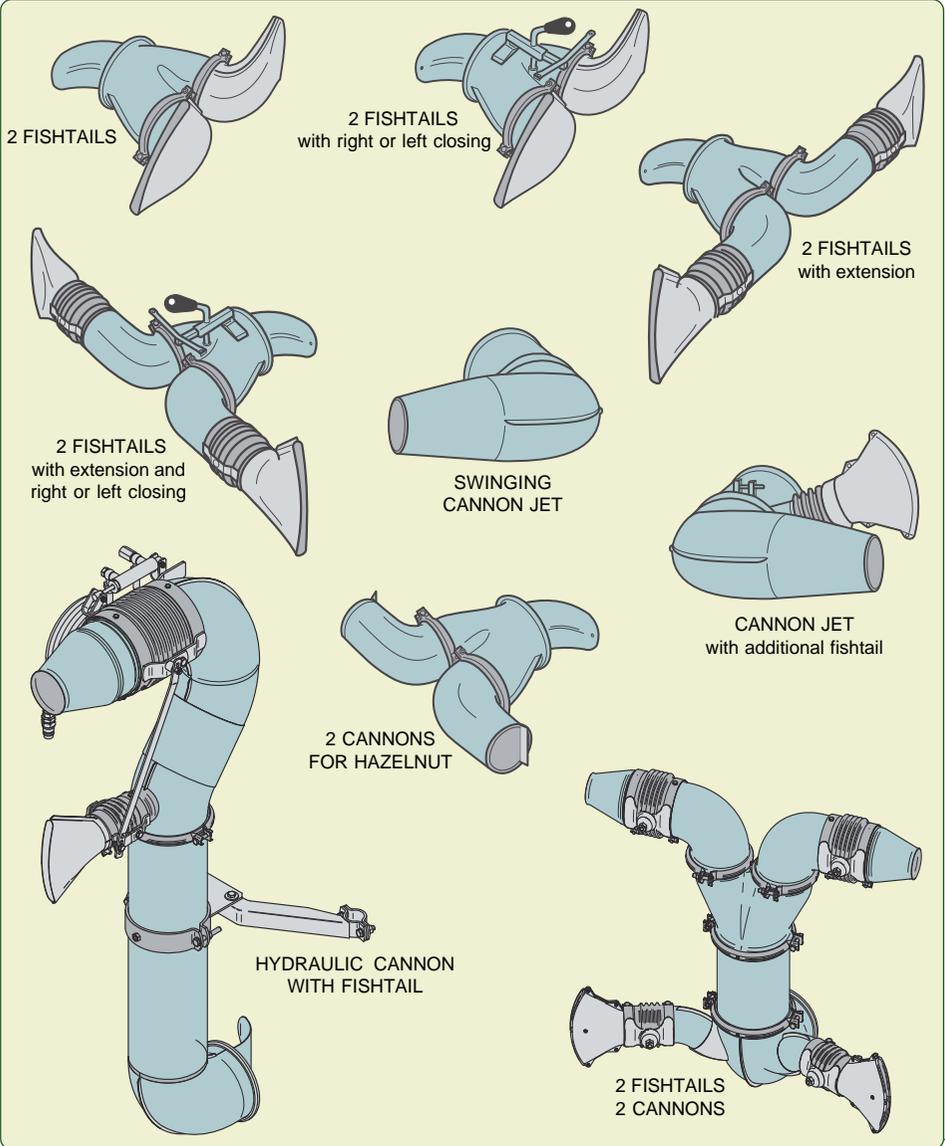
Position the regulation lock connection flexible cable in such a way to avoid that, during the treatment, it can get torn. If necessary, use some fastening belts.



6 DISTRIBUTION DEVICES 6

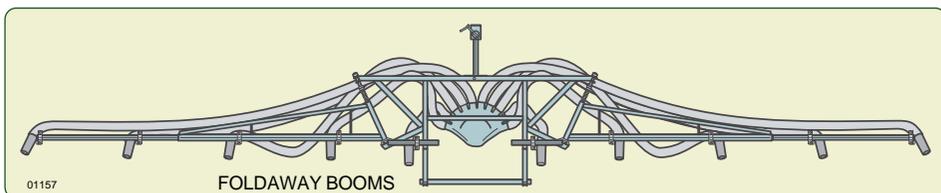


All the distribution heads CAN BE ORIENTED. The regulation of the position allows to optimise the distribution, according with the ground and with the type of culture to be treated.



Description	Model	Code	Weight (kg)
2 Fishtails	Esse 420/430	I.2V.S4.01	7,00
	Esse 520/530	I.2V.S5.01	7,00
2 Fishtails with right or left closing	Esse 420/430	I.2V.CH.S4.01	8,00
	Esse 520/530	I.2V.CH.S5.01	8,00
2 Fishtails with extension	Esse 520/530	I.2V.L.S5.01	9,30
2 Cannons for hazelnut	Esse 420/430	I.2C.S4.01	8,00
	Esse 520/530	I.2C.S5.01	8,00
Swinging Cannon Jet	Esse 420/430 Esse 520/530	I.GC0.S.01	3,00
Swinging Cannon Jet with additional fishtail	Esse 420/430 Esse 520/530	I.GC2.S.01	6,50
2 Fishtails 2 Cannons	Esse 420/430	I.2V2C.S4.01	13,40
	Esse 520/530	I.2V2C.S5.01	14,00
Hydraulic Cannon with Fishtail	Esse 420/430	I.GC2.I.S4.01	25,50
	Esse 520/530	I.GC2.I.S5.01	25,50
2 Fishtails with extension and right or left closing	Esse 420/430	I.2V.LCH.S4.01	14,00
	Esse 520/530	I.2V.LCH.S5.01	14,00
4 Fishtails	Esse 520/530	I.4V.S5.01	21,00

01147



Description	Code	Weight (kg)
Manual Foldaway Booms	mt. 8 with 5 outlet	I.BR.S5.85.01
	mt. 8 with 8 outlet	I.BR.S5.88.01
	mt. 8 with 10 outlet	I.BR.S5.810.01
Hydraulic Foldaway Booms	mt. 10 with 5 outlet	I.BI.S5.1005.01
	mt. 10 with 8 outlet	I.BI.S5.1008.01
	mt. 10 with 10 outlet	I.BI.S5.1010.01
Extra charge for fishtail outlets instead of standard nozzles	DIFF.VENT.01	0,20

7.1 - PAIR OF WHEELS

The wheels thread can be adapted to that of the tractor.



MOUNT THE WHEELS AFTER HAVING HITCHED THE DUSTER TO THE THREE-POINT LINKAGE.

DISMANTLE THE WHEELS BEFORE UNHITCHING THE DUSTER FROM THE THREE-POINT LINKAGE.

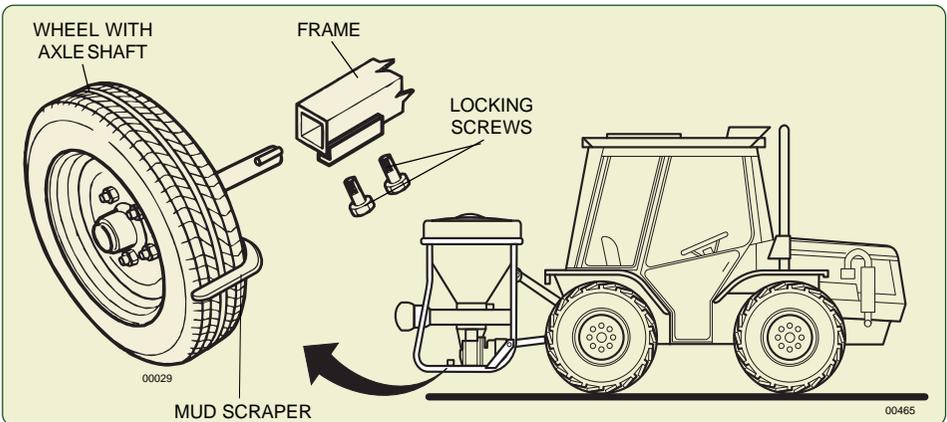
EXECUTION:

- Hitch the machine to the tractor and lift it to a height at which the wheels can be mounted.
- 

Stop the tractor, remove the key from the control panel and ensure that no one operates the three-point linkage's hydraulic controls. AVOID OPERATING AND STANDING BENEATH THE MACHINE OR WITHIN THE AREA THAT MIGHT BE INVOLVED IN ITS SUDDEN LOWERING.
- Insert the wheels' axle shafts into the machine's axle.
- Adapt the wheels' track to that of the tractor.
- Lock the axle shafts by means of the axle screws.
- Start the tractor and keep the duster lifted during the transfers, lowering it to carry out the treatment.



THE DUSTER MUST BE LIFTED AT EVERY DIRECTION CHANGE MAKING SURE THAT THE WHEELS ARE NOT RESTING ON THE GROUND.


S 420 - S 430
S 520 - S 530

WHEELS

135/80-R13

135/80-R13


INFLATING PRESSURE

3,3 atm

3,3 atm

01180



The utilisation of **NON ORIGINAL** pairs of wheels not equipped with mud scrapers will nullify the machine's warranty.



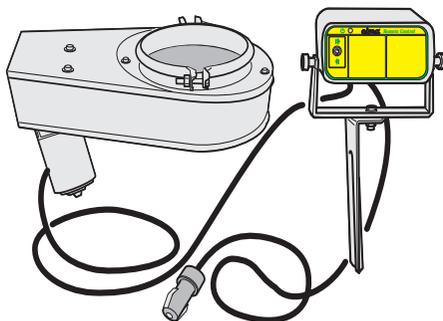
The operating pressure of the tyres is indicated on the decal placed on the rim of each wheel.

7.2 - ELECTRICAL SWIVELLING DEVICE

It is an accessory used to modify the direction of the spraying during the use of the duster; it can be used only with the distribution devices with delivery on the one side.



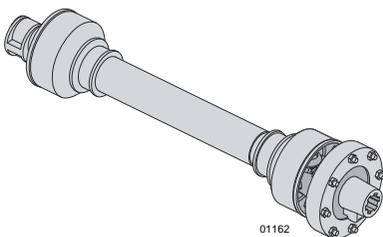
For its use is necessary that the duster is provided with a sprayhead with **VERTICAL** outlet.



00616

7.3 - CARDAN SHAFT WITH CLUTCH

It is used with safety function against overload; the relative rotation between the surfaces of the clutch limit the value of the transmitted torque.



01162

FILLING MUST BE CARRIED OUT WITH THE MACHINE ON A FLAT SURFACE. ON THE SITE, BEFORE THE OPERATION, THE DOSES TO BE POURED INTO THE TANK MUST BE PREDISPOSED.



IT IS NECESSARY TO ALWAYS MAKE USE OF PERSONAL PROTECTION.

EXECUTION:

1. Take the duster to the area in which it is to be filled and rest it on the ground.
2.   **Stop the tractor and remove the key from the control panel.**
3. Before filling the tank, stop delivery by bringing the control lever to the "0" position.
4.   **Before opening the lid, ALWAYS check that the tractor is STILL and that the key was REMOVED from the control board.**
5. Open the lid of the tank.



Avoid that both BEFORE and DURING the loading any foreign objects like stones, small pieces of metal, etc., are introduced into the tank. Even if small dimensioned, such objects could, by getting into contact with the mixer during its operation, cause some sparks inside the tank and set the duster on fire.

6. Introduce the powder product into the tank, up to its complete filling.
7. Close the lid of the tank.
8. Start the tractor, always observing the safety norms and move to the treatment place.



Before any transferring, make sure that the powder delivery lock is CLOSED (position "0"). If the delivery lock is open and the fan is still, the powder contained inside the tank could, as a result of the vibrations, move down and compact itself inside the fan, so causing at the machine start an excessive solicitation of the moving parts, which could consequently break. As a general precaution measure, it is recommended to avoid covering great transferring distances with the loaded tank, in order to avoid the product getting compacted inside the tank.

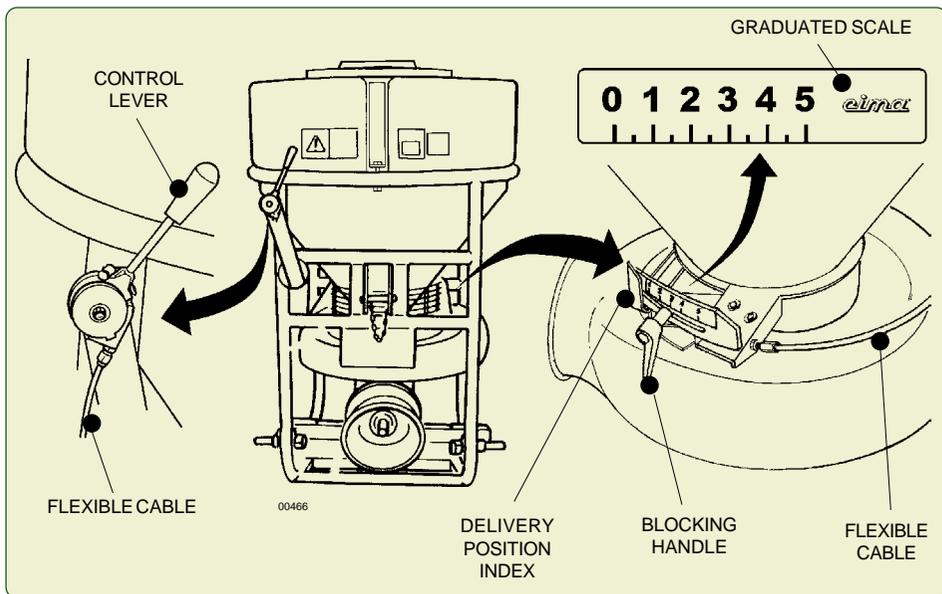
The products to be used with the duster have physical characteristics that can be strongly modified by the temperature and humidity conditions at the moment of treatment. Therefore, it is not possible to obtain and set reliable delivery amounts corresponding to the various opening indexes of the delivery holes on the tank bottom.

Usually, the machine allows deliveries from a min. 0,4 up to max. 8 kg/min., with the opening index set on No. 5. To do a treatment with constant powder distribution, it is possible to set the on-of lever at the same opening position by the locking handle.

EXECUTION:

1. Using the on-off lever, find the delivery position suitable for the intervention.
2. Unscrew the locking lever and move it up to reach the delivery position indicator, then strongly lock it by completely screwing it back.

This operation ensures the equal opening of the delivery holes during the entire treatment.


10
OPERATING PROCEDURES
10
10.1 - PRELIMINARY OPERATIONS TO TREATMENT
THE OPERATOR MUST:

1. Ascertain that the condition of the crops, the progress of the disease or the need for its prevention actually justify the treatment to be applied.
2. Be aware of the meteorological conditions forecast for all the time necessary for carrying out the treatment.
3. If possible, avoid carrying out the spraying in strong wind conditions or when one detects that the sprayed product disperses away from the target crop (drifting). It is advisable to suspend the treatment when the wind speed exceeds 3 m/s (10 km/hour).
4. Carefully calculate the exact quantity of the product necessary for the treatment.
5. Check that the product is available in a quantity sufficient to complete the intervention.
6. Read the product's utilisation instructions carefully, in order to ascertain the usage conditions, the correct dosage and the expiration dates.

10.2 - PREPARATORY OPERATIONS TO TREATMENT.



IT IS ALWAYS NECESSARY TO WEAR PERSONAL PROTECTION CLOTHING AND ACCESSORIES. The powdering masks do not offer any protection against toxic vapors. Avoid using clothes that can get caught in the moving elements.



Before opening the lid, ALWAYS check that the tractor is STILL and that the key was REMOVED from the control board.

1. Carry out all checking and maintenance operation necessary for setting up the machine.
2. Perform loading in a well-ventilated place. If this is done outdoors, the presence of wind increases the danger of contamination.
3. Avoid proximity of free flames, coals or burning objects with flammable products.
4. Put the emptied product packages in the appropriate container or in the storage rooms.
5. Clean the equipment and the tools used for preparation and keep them in the storage area for chemical products.
6. Always leave the product loading and preparation area in conditions which will not cause any contamination to persons or animals, or environmental pollution.
7. If necessary, mark the field or the machine passage area, to provide a guide for treatment and to avoid missing spots or overlapping layers.



- **AT THE END OF THE OPERATIONS NECESSARY FOR TREATMENT, THE STORAGE-CONSERVATION AREAS MUST BE LEFT IN THE CONDITION REQUESTED IN ORDER TO PERFORM THEIR PREVENTIVE AND PROTECTIVE FUNCTION.**
- **BEFORE RE-STARTING THE TRACTOR, CLEAR PEOPLE AND ANIMALS AWAY AND NEVER LEAVE THE MACHINE UNGUARDED DURING THE PREPARATION OPERATIONS.**

10.3 - THE TREATMENT



Before any transferring, make sure that the powder delivery lock is CLOSED (position "0"). If the delivery lock is open and the fan is still, the powder contained inside the tank could, as a result of the vibrations, move down and compact itself inside the fan, so causing at the machine start an excessive solicitation of the moving parts, which could consequently break. As a general precaution measure, it is recommended to avoid covering great transferring distances with the loaded tank, in order to avoid the product getting compacted inside the tank.

IT IS ADVISABLE TO BEGIN TREATMENT AT THE HEADLANDS.

The operator must:

1. Start the tractor, always observing the safety norms.
2. Activate the power take off (PTO) and take it to a rotation speed of **at least 500 RPM.** CARRY OUT THE TREATMENT



SOFTLY ENGAGE THE PTO.

The fan must reach the status of inertia and acquire a certain rotation speed before pushing the accelerator. Transmitting most of the motor power to overcome the starting take-off may cause the breakage of the multiplier gears. Pay special attention with double-clutch tractors.



The duster should work with PdP at 540 RPM. For a good result of the treatments this condition **MUST ALWAYS BE OBSERVED** during the machine's operation. Utilisation is permitted with speed rates ranging between 500 and 620 RPM.

3. Use personal protection identical to that advised for the mixture, preparation and loading, if the tractor does not have a pressurized cab with aeration filters.
4. Immediately wash all elements contaminated during the treatment, promptly take off the contaminated protection clothes and discontinue the job if these cannot be replaced.
5. If the wind increases, follow the instructions given in the preliminary operations.
6. During the pauses, stop the motor, take the key out of the control panel of the tractor and lower the hoist.
7. Pay special attention when doing treatments near property lines, houses, waterways, roads or public paths.

10.4 - END OF TREATMENT - STORAGE

THE OPERATOR MUST:

10.4.1 - Daily

1. Keep the machine in a ventilated place, sheltered from rain or sun: sunrays are the worst enemies of plastic and rubber parts.

10.4.2 - End of seasonal cycle

1. Carry out an accurate cleaning of the duster, emptying the tank and the distribution holes of any product residue. The operation must be done without the use of water or liquid detergents.
2. Check to see if the machine's parts and structures are working correctly. In the case of negative results, ask for the intervention of C.I.M.A. S.p.A. dealer or authorized workshop.
3. Put the machine in a ventilated place, sheltered from rain, ice and rays of sun.



The machine must be stored in a secure or closed place, so as to prevent access to unauthorized personnel.

11

LIFTING AND TRANSPORT

11



THE FOLLOWING ACTIONS ARE NOT ALLOWED:

- Transporting or lifting the duster with residual quantities of product in the tank for purposes differing from its destined usage.
- The transporting of people, animals or things.
- The trailing of vehicles or equipment.



Road transport must take place in the complete observance of road regulations in force in the Country where the machine is used.

- When the footprint of the duster exceeds that of the tractor, the specific notice sign for overhanging loads needs to be attached on the rear.
- It is necessary to replicate the tractor's number plate and tail lights when these are covered by the machine.

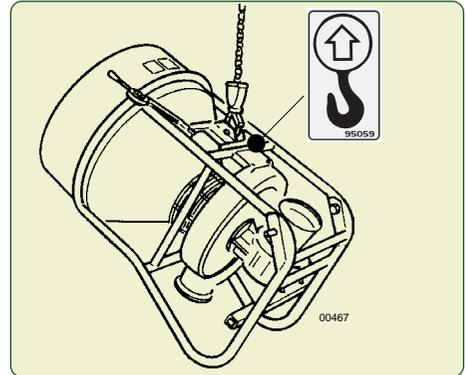
The operator is responsible for possible defaults due to the non observance of said regulations.

11.1 - LIFTING AND TRANSPORT OF THE DUSTER



Before carrying out any operation it is essential to verify that no product residues are left in the tank.

1. Check that the cables or chains used for the lifting are adequate for the weight to be lifted.
2. Hook the machine through the specific support point indicated by the specific decal on the frame, checking all the parts involved in the operation.
3. Lift the machine, verifying that it is properly balanced; position the duster on the transporting vehicle in perfectly stable conditions.
4. During transport the machine must be immobilised and fastened to the carrier by way of suitable strapping.



12

MAINTENANCE OPERATIONS

12



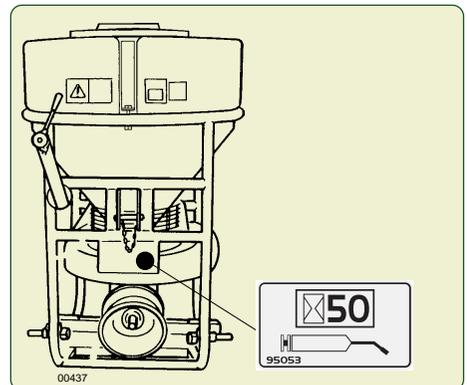
ALL OPERATIONS MUST BE CARRIED OUT WITH THE ENGINE SWITCHED OFF AND WITH THE IGNITION KEY REMOVED FROM THE CONTROL PANEL.

12.1 - GREASING

At the beginning of the treatment season and after every 50 hours work, grease the felt seal with EP type NGL2 class grease.



Accurately clean the greaser before use: dirt could be introduced together with grease.



12.2 - LUBRICATION



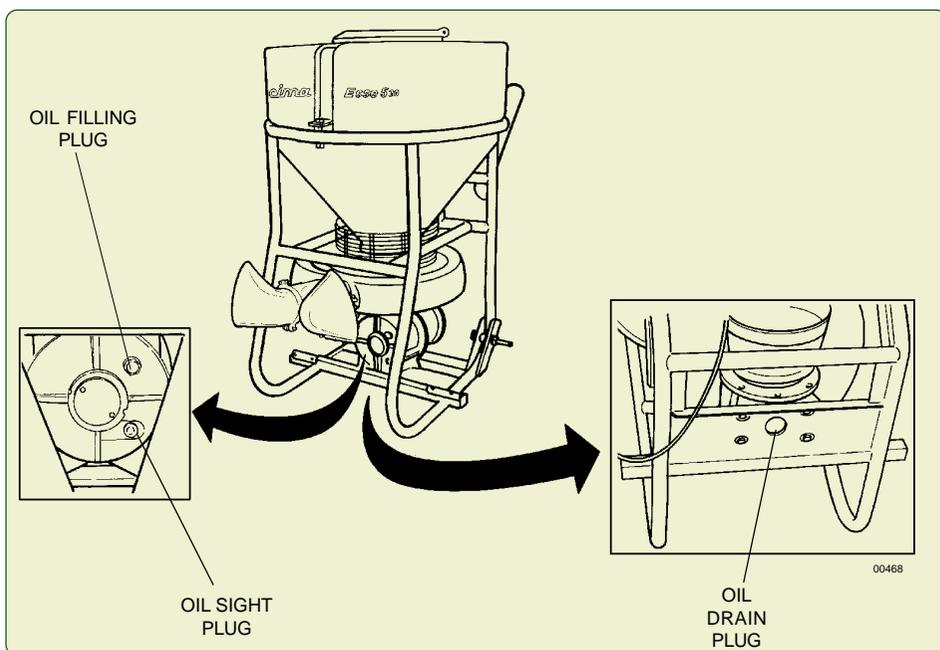
When the machine is sitting on a flat surface, the oil level inside the multiplier should always be visible through the sight plug situated on the guard cover.

The multiplier oil has to be replaced after **1000 working hours**. A plug situated under the multiplier box allows for the discharge of the oil.

It is absolutely necessary that the oil is always kept at the required level. Any possible filling up has to be carried out through the filling cap, either by inclining or by laying down the machine: **always use oil SAE 90**.



At the beginning of the treatment season and before every intervention, check the oil level in the multiplier guard.



13

TROUBLE SHOOTING

13

A. PROBLEM: Oil leakage from the cover of the multiplier box

1. CAUSE: The cover seal is defective.
REMEDY: Refer to CIMA after sale service.
2. CAUSE: The sealing ring on the cover is defective.
REMEDY: Refer to CIMA after-sale service.

B. PROBLEM: Vibration of the ventilator group

1. CAUSE: The fan is dirty or out of balance.
REMEDY: Refer to CIMA after-sale service.
2. CAUSE: The PdPs are not aligned or are not parallel.
REMEDY: Position the PdPs in the correct way.

C. PROBLEM: Abnormal and constant noise with vibrations

1. CAUSE: Breakage of the multiplier bearings.
REMEDY: Refer to CIMA after sale service.

D. PROBLEM: Non-delivery of powders

1. CAUSE: The feeding holes on the tank bottom are clogged.
REMEDY: Clean them.
2. CAUSE: Caking of the tank's contents.
REMEDY: Break up the powder.

E. PROBLEM: Distribution on the two sides is not uniform

1. CAUSE: The compensation plate of the head has moved.
REMEDY: Adjust it in order to get a uniform distribution.

14

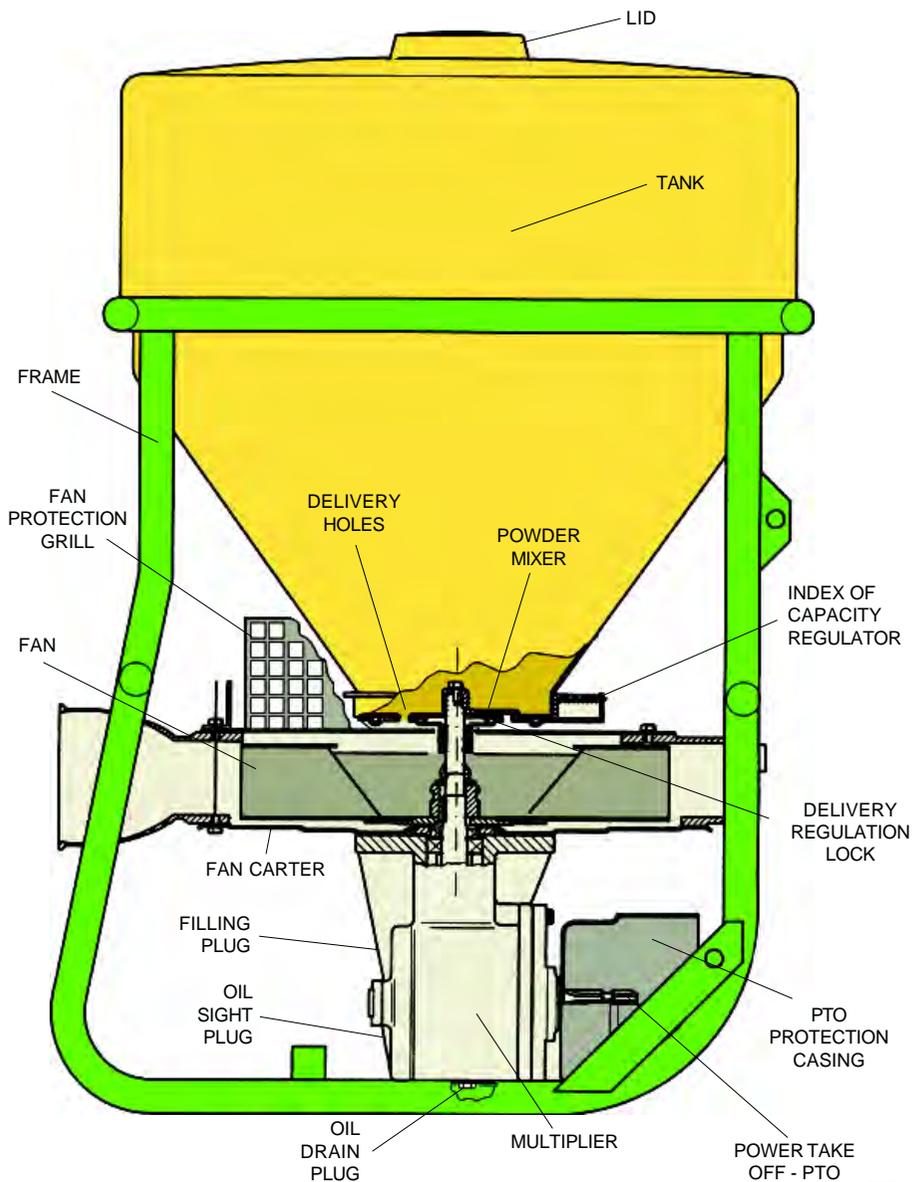
REPAIRS ALLOWED

14



THE OWNER AND/OR THE OPERATOR OF THE DUSTER ARE NOT PERMITTED TO MODIFY THE STRUCTURE OR THE SPECIFIC OPERATION OF THE DUSTER ITSELF. ANY REPAIRING INTERVENTION HAS TO BE CARRIED OUT EITHER AT THE DISTRIBUTORS' OR AT THE C.I.M.A. S.p.A. AUTHORIZED WORKSHOPS, OTHERWISE ANY KIND OF WARRANTY IMMEDIATELY CEASES AND C.I.M.A. S.p.A. IS CLEARED OF ANY CONSEQUENT AND/OR IMPLIED RESPONSIBILITY.

15.1 - DUSTER DIAGRAM



00476

LqA, Observed equivalent average sound level, expressed in dB(A)=:

Esse 420-430 = **90,2 ± 0,2**

Esse 520-530 = **98,2 ± 0,2**

17 ATTACHMENT: DECLARATION OF COMPLIANCE 17



DICHIARAZIONE DI CONFORMITÀ

ai sensi della direttiva 98/37/CE del 22/06/98 e successive modificazioni



DECLARATION OF CONFORMITY

 as directive: 98/37/CE - 22/06/98
and subsequent modifications


DECLARATION DE CONFORMITE

 selon la directive 98/37/CE - 22/06/98
et modifications ultérieures


ÜBEREINSTIMMUNGS-ERKLÄRUNG

 lt. Direktiven 98/37/CE - 22/06/98
und nachfolgenden Änderung


DECLARACION DE CONFORMIDAD

 con arreglo a la Directiva 98/37/CE - 22/06/98
y modificaciones siguientes

CIMA s.p.a. 27040 MONTÙ BECCARIA (PV) - ITALY - Loc. Molino Quaroni

 DICHIARA
SOTTO LA PROPRIA
RESPONSABILITÀ
CHE LA MACCHINA:

 HEREWITH DECLARES
UNDER THEIR PERSONAL
RESPONSIBILITY,
THAT THE FOLLOWING
MACHINE:

 DECLARONS SOUS
NOTRE RESPONSABILITÉ
QUE LA MACHINE
DECRITE CI-APRÈS:

 BESTÄTIGT
HIERMIT UNTER
IHRER PERSÖNLICHEN
VERANTWORTUNG,
DASS DIE MASCHINE:

 DECLARA
BAJO LA PROPIA
RESPONSABILIDAD
QUE LA MÁQUINA:

SERIE, TIPO - MODEL, TYPE - SERIE, TYPE - MODEL, TYP - SERIE, TIPO:

MATRICOLA - SERIAL - MATRICULE - SERIAL - MATRICULA NR.:

E' conforme ai Requisiti essenziali di Sicurezza e di Tutela della Salute di cui alla Direttiva 98/37/CE del 22/06/98 e sue successive modificazioni.

 Per la verifica della Conformità di cui alle Direttive sopra menzionate, sono state consultate le seguenti:
Norme armonizzate: EN 294 EN 349 EN 907.

Conforms to the essential Safety regulation as well as the Health requirements as per European Economic Community Directive: 98/37/CE - 22/06/98 and subsequent modifications. For the verification of conformity as per above mentioned directives the following official EN norms have been consulted: Harmonized norms: EN 294 EN 349 EN 907.

Est conforme aux exigences de Sécurité et de Sauvegarde de la Santé dont à la Directive 98/37/CE - 22/06/98 et modification ultérieures. Pour vérifier la conformité aux directives susmentionnées, ont été prises en compte les normes suivantes: Normes harmonisées: EN 294 EN 349 EN 907.

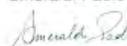
 Stimmt mit den wesentlichen Requisiten der Sicherheitsvorschriften und der Gesundheitsvorsorge lt. EWG Direktive Nr. 98/37/CE - 22/06/98 und nachfolgenden Änderungen überein. Für die Überprüfung dieser Übereinstimmungs-Erklärung lt. obigen Direktiven sind folgende Normen konsultiert worden:
Normen: EN 294 EN 349 EN 907.

 Cumple con los requisitos esenciales de Seguridad y de Preservación de la Salud contenidos en la Directiva 98/37/CE - 22/06/98 y modificaciones siguientes. Para comprobar la conformidad a la que se refieren las Directivas anteriormente citadas, se han consultado las siguientes:
Normas Armonizadas: EN 294 EN 349 EN 907.

Responsabile della Sicurezza - The Security Official - Responsable Sécurité et Homologations - Der Sicherheits-Beamter - Responsable de la Seguridad

 Montù Beccaria (PV)
Data, Date, Datum, Fecha.

Smeraldi Paolo



10020



THE OWNER AND/OR THE OPERATOR OF THE DUSTER ARE NOT PERMITTED TO MODIFY THE STRUCTURE OR THE SPECIFIC OPERATION OF THE DUSTER ITSELF. ANY REPAIRING INTERVENTION HAS TO BE CARRIED OUT EITHER AT THE DEALERS' OR AT THE C.I.M.A. S.p.A. AUTHORIZED WORKSHOPS, OTHERWISE ANY KIND OF WARRANTY IMMEDIATELY CEASES AND C.I.M.A. S.p.A. IS CLEARED OF ANY CONSEQUENT AND/OR IMPLIED RESPONSIBILITY.

18.1 - Warranty

The goods sold are covered by a general warranty that ensures the good quality of the materials, solid construction and regular operation for twelve months from the date of delivery.

During the warranty period, C.I.M.A. S.p.A. pledges to replace, free of charge, the parts which, in his unquestionable judgement, are considered defective, provided that the flaws and defects cannot be attributed to poor use or maintenance of the product or an unreasonable, inappropriate and unsuitable use of such product with respect to the technical instructions supplied by C.I.M.A. S.p.A.

The products which have been modified, repaired, assembled or tampered with by a third party, consumption materials and the parts subject to wear and tear are excluded from the warranty.

The replacements will be made free CIMA S.p.A. works and the buyer will be responsible for all shipping and return expenses.

The buyer will be responsible for the costs of the labour needed to replace the parts considered defective. The resolution of the contract and any compensation for damage cannot be claimed by the buyer except for serious faults to be proven by said buyer.

The warranty will no longer be extended to the buyer if he does not respect the agreed upon payment procedures and terms.

18.2 - Reporting defects in goods

The claims for flaws or defects in the goods shall be submitted within eight days from when such goods are received or from when hidden defects are discovered, in writing, by means of a registered letter. No claim can be made, nor as an exception, in a court of law if the goods, for which the claim is submitted, have not been regularly paid.

Any claim concerning a single delivery of goods will not exonerate the buyer from his obligation to pick-up the remaining quantity of goods within the limit of the order.

18.3 - To pass safety information

The buyer is responsible towards the final user for the safety information shown on the sale documentation, concerning use limit, performances and product features.

18.4 - Validity and acceptance

The warranty is valid if the CERTIFICATE OF WARRANTY is sent, to C.I.M.A. S.p.A., with every part of it filled in, within 30 days from the date of purchase (referring to the date of the postmark).



NOTES

A series of horizontal dotted lines for writing notes, spanning the width of the page.



CERTIFICATE OF WARRANTY

Copy for the owner (to be kept in the manual "Instructions for the use and maintenance)

Last name, Name or
NAME OF THE FIRM

ADDRESS

Place PROVINCE ZIP

e.mail (*) telephone (*)

Date of purchase INVOICE N.

MACHINE MOD. MATRICULATION N.

SPRAYHEAD MOD.

Dealer's stamp (compulsory)

(*) NOT COMPULSORY DATA

PRIVACY

Consent for the personal data processing– **PROTECTION OF THE PRIVACY** .

I authorize you, according to the D.Lgs. 196/03 "Consolidated Text about the Privacy" to the processing of my personal data in observance of the law above mentioned, for the indicated purposes, and so that they can be communication to the subjects for the declared purposes.

Date Signature

Warranty conditions

1. Warranty

The goods sold are covered by a general warranty that ensures the good quality of the materials, solid construction and regular operation for twelve months from the date of delivery.

During the warranty period, C.I.M.A. S.p.A. pledges to replace, free of charge, the parts which, in his unquestionable judgement, are considered defective, provided that the flaws and defects cannot be attributed to poor use or maintenance of the product or an unreasonable, inappropriate and unsuitable use of such product with respect to the technical instructions supplied by C.I.M.A. S.p.A. The products which have been modified, repaired, assembled or tampered with by a third party, consumption materials and the parts subject to wear and tear are excluded from the warranty. The replacements will be made free CIMA S.p.A. works and the buyer will be responsible for all shipping and return expenses. The buyer will be responsible for the costs of the labour needed to replace the parts considered defective. The resolution of the contract and any compensation for damage cannot be claimed by the buyer except for serious faults to be proven by said buyer. The warranty will no longer be extended to the buyer if he does not respect the agreed upon payment procedures and terms.

2. Reporting defects in goods

The claims for flaws or defects in the goods shall be submitted within eight days from when such goods are received or from when hidden defects are discovered, in writing, by means of a registered letter.

No claim can be made, nor as an exception, in a court of law if the goods, for which the claim is submitted, have not been regularly paid.

Any claim concerning a single delivery of goods will not exonerate the buyer from his obligation to pick-up the remaining quantity of goods within the limit of the order.

3. To pass safety information

The buyer is responsible towards the final user for the safety information shown on the sale documentation, concerning use limit, performances and product features.

4. Validity and acceptance

The guarantee is valid if the CERTIFICATE OF GUARANTEE is sent, to C.I.M.A. S.p.A., with every part of it filled in, within 30 days from the date of purchase (referring to the date of the postmark).

Informative according to the D. L. n. 196 of the 2003 ("Code in matter of protection of the personal data")

Dear customer,
according to art. 13 of the D.Lgs. 196/03 "Unique Text on Privacy" (referred to as 'Law' here below) we would like to inform you about the following:

1) the personal data given to C.I.M.A. S.p.A. when filling in the "Warranty Certificate" will be processed respecting the above mentioned regulations and the rules of privacy stated there in;

2) according to art.4, paragraph 1, lett. a) of the Law, the handling of personal data signifies "whatever operation or set of operations carried out (even without the aid of electronic instruments) regarding the collection, recording, organization, conservation, research, handling, modification, selection, extracting of details, comparison of, use of, connecting to, blockage, passing on, distributing, cancellation and destruction of data, even if not recorded in a data bank";

The handling of the personal data given is carried out by automatized and non automatized instruments, with controlled access and as specified by clause B of the Law;

3) the data are processed to an institutional end, in connection with or useful to the activities of C.I.M.A. S.p.A. for filing, processing and management;

4) the data are collected and recorded so that access is only allowed to authorized persons and they may be processed exclusively by C.I.M.A. S.p.A. to the above mentioned end;

5) the collected data may only be given to a third party exclusively in connection with accounting imposed by fiscal law and in the case of demands from the judicial authority.

In addition we inform you that any interested party may exercise his rights mentioned in art.7 of the Law; in the exercise of such rights the interested party may delegate or give a proxy, in writing, to persons or associations. The authority to carry out this processing is C.I.M.A. S.p.A., represented in person by a lawyer.

The data processing is done by instruments fit to guarantee the safety and privacy as specified in clause B of the Law.



CERTIFICATE OF WARRANTY

The warranty will not be considered valid if this coupon, with every part of it filled in, is not mailed to the following address: C.I.M.A. S.p.A. - 27040 Montù Beccaria, Loc. Molino Quaroni - (PV) - Italy), or sent by fax to the following number: +39.0385.246637, within 30 days from the date of purchase.

Last name, Name or
NAME OF THE FIRM

ADDRESS

Place PROVINCE ZIP

e.mail (*) telephone (*)

Date of purchase INVOICE N.

MACHINE MOD. MATRICULATION N.

SPRAYHEAD MOD.

Dealer's stamp (compulsory)

(*) NOT COMPULSORY DATA

PRIVACY

Consent for the personal data processing– **PROTECTION OF THE PRIVACY** .

I authorize you, according to the D.Lgs. 196/03 "Consolidated Text about the Privacy" to the processing of my personal data in observance of the law above mentioned, for the indicated purposes, and so that they can be communication to the subjects for the declared purposes.

Date Signature

CUT ALONG THE DOTTED LINE

Warranty conditions

1. Warranty

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Where we are





cima[®] S.p.A.

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