

USE AND MAINTENANCE HANDBOOK

SHREDDER

***SERIES: L - LP - MTL - V - VP - VL - MT – MTP
ROAD – AB – VN – VG 1/2/3 – MTX – MTE – VX –
MPF – MPFX - COBRA***



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“Contains Declaration of Conformity” (CE)

📖 Read carefully this handbook before using the machine 📖

DECLARATION OF CONFORMITY

(pursuant to the Machinery Directive 2006/42/EC Annex II part 1, section A)

The Firm ***Dragone s.r.l.***

REGISTERED OFFICE - FACTORY AND ADMINISTRATION:

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DOCUMENTATION DEPOSITARY :

BOERI CLAUDIO, Via **G. Abbate, 189 - 14054 Castagnole delle Lanze (AT)**

Declares under its responsibility that the machine:

Shredder with horizontal axis

MODEL

SERIAL NUMBER

YEAR

Complies with the following European Directives:

2006/42/CE (Machinery Directive)

2014/30/CE (Electromagnetic Compatibility Directive)

The following Harmonised Standards have been used for adaptation of the machine:

UNI EN ISO 4254-12 : 2018

UNI EN ISO 4254-1 : 2015

as well as the technical specifications:

ISO 17101-2 2012

ISO 11684 1995

Castagnole delle Lanze (AT),

The legal representative
(Boeri Claudio)

***SHREDDER series L- LP- MTL- V - VP - VL - MT - MTP- ROAD – AB - VN – VG 1/2/3 – MTX – MTE
– VX – MPF – MPFX - COBRA***

DRAGONE wants to thank you for having chosen one of its products.

The technological evolution and the new requests of the agricultural world have pushed our firm to continue improvement of the product, focusing on the quality of the materials and processing, but above all trying to satisfy the specific requests of customers.

This handbook contains a description of the operation and necessary instructions to correctly perform the main use, routine maintenance and periodic maintenance operations of the shredder.

It is divided into easy to identify chapters for the sake of practicality.

The indications contained in this handbook are intended for a professional user, who must have specific knowledge about the driving procedures of the tractor to which the machine is connected and must be authorised, instructed and appropriately trained.

The use of original spare parts and accessories is recommended. Non-original parts will result in forfeiture of the warranty and could be dangerous reducing the duration and performance of the machine.

If any doubts should arise regarding the explanations illustrated in this handbook you should contact the retailer who will be happy to help you promptly and clear up any doubts.

The technical information contained in this handbook is the property of the DRAGONE and must be considered confidential.

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***SHREDDER series L- LP- MTL- V - VP - VL - MT - MTP- ROAD – AB - VN – VG 1/2/3 – MTX – MTE
– VX – MPF – MPFX - COBRA***

1 GENERAL INFORMATION

1.1 INFORMATION ON THE HANDBOOK

The use instructions presented in this handbook must be scrupulously complied with in order to obtain the best performance, ensure the maximum duration of the various parts and to prevent damage to the machine and occupational accidents.

This handbook should be read carefully, in order to gain more knowledge on the SHREDDER before starting to use it.

The handbook is to be considered an integral part of the machine, and must accompany it if it is resold and until it is dismantled.

Some illustrations in this handbook show details or accessories that could be different

from those of your machine, certain components may have been removed to ensure that the illustrations are clear.

The subjects dealt with in this handbook are those expressly required by the "Machinery Directive 2006/42/EC" and by the relative technical standards.

Specific pictograms are placed on the machine. The operator is responsible for keeping them perfectly visible and replacing them when they are no longer legible.



This symbol with the words below:

**DANGER
ATTENTION
WARNING**

is used in this handbook to draw your attention to the safety and correct operation of the machine. Thus it is necessary to observe all the indicated rules.

This Handbook has been written following the laws in force at the time it was printed.

It is an integral part of the machine and must go with the machine with the

Declaration of Conformity in case of resale.

The machine cannot be bought, sold or commissioned if not accompanied by the handbook.

DRAGONE offers its Customers increasingly more efficient equipment. The company is committed to constant technical updating; therefore it reserves the right to make modifications at any time sending a copy of the modification or possible update as a replacement.

1.1.1 USE OF THE HANDBOOK

The Handbook is a safety component of the machine of utmost importance.

- It must be kept carefully because it has to accompany the machine for its entire life cycle.
- It must be updated if there are modifications.
- It must be read by everyone who uses the machine.
- It is divided into various sections. Each section contains information for safely performing the indicated operations.
- It may be integrated with attachments containing diagrams and any other documentation that is referred to in the handbook.

Operations not included in this handbook are considered part of the manufacturer's technical expertise and must not be performed by the customer.

1.1.2 DEFINITIONS USED IN THE HANDBOOK

As per the Machinery Directive 2006/42/CE the following definitions may be used in this handbook:

- a) "**hazard**", a potential source of injury or damage to health;
- b) "**danger zone**", any zone within and/or around machinery in which a person is subject to a risk to his health or safety;
- c) "**exposed person**", any person wholly or partially in a danger zone;.
- d) "**operator**", the person or persons installing, operating, adjusting, maintaining, cleaning, repairing or moving machinery;
- e) "**risk**", a combination of the probability and the degree of an injury or damage to health that can arise in a hazardous situation;
- f) "**guard**", a part of the machinery used specifically to provide protection by means of a physical barrier;

- g) “**protective device**”, a device (other than a guard) which reduces the risk, either alone or in conjunction with a guard;
- h) “**intended use**”, the use of machinery in accordance with the information provided in the instructions for use;
- i) “**reasonably foreseeable misuse**”, the use of machinery in a way not intended in the instructions for use, but which may result from readily predictable human behaviour.

1.1.3 HOW TO UPDATE THE HANDBOOK IF THERE ARE CHANGES TO THE MACHINE

Modifications to the machine are not envisaged unless they are done by or in collaboration with Dragone which has the sole authority to:

- update the handbooks;
- modify the design and make improvements to future manufactured machines based on technological innovations, specific requests of new customers and normative updates.

The buyer and the user of the machine cannot modify or update this handbook unless in exclusive collaboration and subsequent authorisation of Dragone.

1.1.4 CUSTOMER'S RESPONSIBILITY FOR USING AND PRESERVING THE HANDBOOK

The customer and its managers have a legal obligation to read the contents of this handbook and have it read by the users and maintenance personnel assigned to the machine for the parts they are responsible for.

The customer is responsible for replacing the old copy of the handbook with the updated one or the single chapters in the event of partial updates.

This handbook must be kept completely intact and must accompany the machine if it is resold or picked up by third parties.

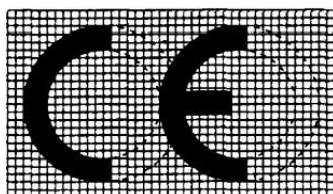
1.2 MACHINE IDENTIFICATION

The CE marking is affixed to the frame of every machine as well as a plate with the manufacturer's information, the model and serial number, the year of manufacture and the weight.

CE identification plate:

The CE conformity marking shall consist of the initials 'CE' taking the following form:

(Annex III to the machinery directive 2006/42/EC)



In addition to the "CE" marking, the plate shall also contain the identification data of the machine and name of the manufacturer or his authorised representative.



Location of CE marking on the machine:**1.3 INFORMATION ON THE MACHINE**

Before leaving the production plant, this specific model was subjected to strict acceptance testing in order to deliver a qualified product, according to the criteria and instructions stated in the use and maintenance handbook, and to ensure its maximum reliability.

1.3.1 INTENDED USES

The machines of the series *L, LP, MTL, V, VP, VL, MT, MTP, ROAD, AB, VN, VG 1/2/3, MTX, MTE, VX, MPF* and *MPFX* have been designed and manufactured exclusively for cutting grass, brushwood and prune remainings.

The *VM* series machines are suitable for working on corn plants.

The machine is not suitable for using in sectors other than agriculture.

**ATTENTION**

**The machine is to be used by only one operator.
Any use other than that specified is to be considered improper.**

The machine must be used exclusively by authorised, instructed and appropriately trained personnel.

This machine is normally used during the day, if exceptionally it needs to be used at night or in conditions of reduced visibility the tractor lighting system must be used.

Any arbitrary modifications made to this machine, shall release the *DRAGONE company* from any liability for damage or injury, including serious, that may occur to operators, third parties and property.

Correct use of the machine, scrupulous compliance with the rules listed herein and rigorous application of all the measures to prevent any hazardous situations, shall prevent the danger of accidents or injuries, make the machine work better and longer and reduce faults to a minimum.

The DRAGONE company shall not be held objectively or subjectively liable if the rules mentioned in this handbook are not applied and observed.

1.3.2 CONTRAINDICATIONS AND REASONABLY FORESEEABLE MISUSES

The main contraindications and reasonably foreseeable misuses of the SHREDDER are listed below:

- make sure that there are no stones or rocks of significant dimensions (diameter greater than 10 - 15 cm) on the ground to be worked;
- make sure there are no stumps protruding more than around 10cm and with diameter greater than around 10 - 15 cm on the ground to be worked;

- make sure that there are no metallic elements of any type on the ground to be worked, in particular nets, cables, ropes, chains, pipes, etc.;
- carefully observe and apply the instructions for adjusting the machine height from the ground, and avoid letting other people stand within a machine work range of up to 50 meters;
- it is not advisable to ever work “close to the ground” on wet ground in order not to compromise the machine performance and balance, and possibly risk damaging the rotor. In these cases the hoes are excessively worn, the engine uses a significant amount of power and there is a risk of filling the inside of the rotor protective case with pressed mud;
- prolonged work “close to the ground” tends to petrify and make the ground hard, worsening its characteristics and jeopardising future crops;
- do not connect it to a tractor without a cab or safety rollbar;
- do not connect it to a tractor with power lower than that indicated in the handbook;
- do not use it to lift people, objects and animals.

1.3.3 NOISE LEVEL

Noise tests detected a LAeq noise pressure level equal to 84 dB(A) \pm 1 dB, measured in an open field at 3 m from the machine and 1.6 m from the ground, at the continuous maximum working conditions allowed.

Based on these measurements, personal protection equipment for the ears must be used.



WARNING

Cleaning, regular maintenance of the machine and periodic lubrication contribute to reducing the noise emitted by the machine.

Even if there is a correlation between noise emission and exposure levels, this information cannot be used to determine if it is necessary to take precautions. There are other factors that can influence the sounds exposure level, for example the characteristics of the work environment and the presence of other sources of noise. Information on the level of noise emitted by the machine will help the user or employer in preparing a hazard and risk assessment.

1.3.4 STORAGE

If the machine is not used for long periods it needs to be stored sheltered from inclement weather and protected to avoid an accumulation of dust. The whole machine should be accurately cleaned before being stored and all moving parts adequately lubricated to protect them from rust.

The following should be done before storing the machine for long periods:

- accurately wash the machine;
- make a general visual inspection of the machine to identify any structural damage, find any deep scoring in the paint, make sure that the original safety pictograms are present in their positions, are intact and legible;
- grease all the mechanical members, tightening bolts and the universal joint to the PTO shaft;
- if possible, store the machine in a covered space and put the machine in a stable manner on wood boards;
- cover the machine with a tarp and tie it appropriately.

Recovered used oil must be disposed of correctly. Based on current laws, it is classified as special waste, and as such needs to be taken to specific collection centres. Contact the closest used oil consortium.

1.3.5 SCRAPPING

If the machine is scrapped it needs to be disposed of in adequate dumps in compliance with current laws.

Before scrapping, the plastic or rubber parts and electric and electronic material needs to be separated.

Collect any spent oils and dispose of it in specific collection centres.

The parts composed solely of plastic, aluminium and steel can be recycled if collected at specific centres.

It is strictly forbidden to abandon the machine or its parts in environments unsuitable for disposal or scrapping, because they can be a source of danger and pollution.

1.4 TECHNICAL DATA AND IDENTIFICATION OF THE COMPONENTS

These machines are suitable for low and medium power tractors. They are composed of a supporting frame in electric-welded steel equipped with the joints for the connection to the tractor, a power transmission system composed of a bevel gearbox, a pair of pulleys connected by trapezoidal belts and by an electronically balanced rotor knives-bearing

The models described in this handbook are brought by the tractor through 3 points joints and act on the ground with its own weight and rotation of the PTO.

Upon request it is possible to equip the machines series L, LP, VP, VG, and VL with the "ROAD" application, which makes it possible to move and incline the machine to be able to work on inclined surfaces.

By adjusting the height of the lateral slides or wheels (when present) or rear roller, it is possible to change the working height of the machine.

1.4.1 Technical specifications











The shredders are produced in six series named **L, LP, MTL, VN, V, VP, VL, MT, MTP, ROAD, AB, VG 1/2/3, MTX, MTE, VX, MPF and MPFX**; available in the respective versions indicated in the tables below with different power, weight and dimension characteristics.

L and LP SERIES SHREDDER

A: fixed version

B: shifting version








Optionals: Driven by hydraulic motor

DATI TECNICI - TECHNICAL DATAS TECHNISCHE ANGABEN - DONNÉES TECHNIQUES											
TYPE											
	[mm]	[mm]	[mm]	A [Kg]	B [Kg]				[Hp]	[mm]	[mm]
L 100	1000	1080	250	152	171	16	32	3	15-25	3	4
L 115	1150	1230	300	160	179	20	40	3	15-30	3	4
L 130	1300	1680	300	168	187	22	44	3	20-30	3	4
L 145	1450	1530	400	176	195	24	48	3	25-35	3	4
L 160	1600	1680	400	184	203	28	56	3	30-40	3	4
LP 100	1000	1080	250	185	209	16	32	3	20-25	4	5
LP 115	1150	1230	300	195	218	20	40	3	20-30	4	5
LP 130	1300	1380	300	205	228	22	44	3	20-30	4	5
LP 145	1450	1530	400	215	238	24	48	3	25-35	4	5
LP 160	1600	1680	400	224	248	28	56	3	30-40	4	5

MTL SERIES SHREDDER
A: fixed version
B: shifting version
Optionals: Reversible attachment - Front attachment
Driven by hydraulic motor
DATI TECNICI - TECHNICAL DATAS - TECHNISCHE ANGABEN - DONNÉES TECHNIQUES









TYPE									
	[mm]	[mm]	[mm]	A [Kg]	B [Kg]				[Hp]
MTL 100	1000	1100	250	190	210	14	28	3	18-25
MTL 120	1200	1300	300	215	240	16	32	3	20-30
MTL 130	1300	1400	400	230	260	18	36	3	25-30
MTL 140	1400	1500	400	250	275	18	36	3	25-35
MTL 160	1600	1700	400	295	320	22	44	3	30-40
MTL 180	1800	1900	400	330	355	24	48	3	35-45
MTL 200	2000	2100	400	350	375	28	56	3	40-50

VN SERIES SHREDDER
(*) Weight in version with reinforced rotor and 200 roller diameter
DATI TECNICI - TECHNICAL DATAS - TECHNISCHE ANGABEN - DONNÉES TECHNIQUES









TYPE								A	B
	[mm]	[mm]	[Kg]				[Hp]	[mm]	[mm]
100 VN	1000	1100	395	12	24	3	30-40	500	1400
110 VN	1100	1200	405	12	24	3	35-45	550	1450
120 VN	1200	1300	415	14	28	3	35-45	600	1500
130 VN	1300	1400	445/504 (*)	14	28	4/5 (*)	40-50	650	1550
140 VN	1400	1500	448/553 (*)	16	32	4/5 (*)	40-50	700	1600
150 VN	1500	1600	513/583 (*)	16	32	4/5 (*)	45-55	750	1650
160 VN	1600	1730	537/612 (*)	18	36	4/5 (*)	45-60	800	1700
175 VN	1750	1880	584/667 (*)	20	40	5	50-70	875	1775
200 VN	2000	2130	693	22	44	5	60-80	1000	1900

A: Weight in the fixed version
B: Weight in the shifting version


V SERIES SHREDDER
A: fixed version
B: shifting version
Standard equipment: Rounded side - 160 diameter regulation roller - 133 diameter rotor
Optionals: Reversible attachment – Front fixed wheels – Driven by hydraulic motor
DATI TECNICI - TECHNICAL DATAS - TECHNISCHE ANGABEN - DONNÉES TECHNIQUES

TYPE									
	[mm]	[mm]	[mm]	A [Kg]	B [Kg]				[Hp]
90 V	900	1000	250	227	276	10	20	3	30-40
100 V	1000	1100	250	243	310	12	24	3	30-40
110 V	1100	1200	300	258	327	12	24	3	35-45
120 V	1200	1300	300	267	342	14	28	3	35-45
130 V	1300	1400	350	283	363	14	28	4	40-50
140 V	1400	1500	400	312	385	16	32	4	40-50
150 V	1500	1600	400	344	410	16	32	4	45-55
160 V	1600	1700	450	378	434	18	36	4	45-60
175 V	1750	1880	500	400	481	20	40	5	50-70

VP SERIES SHREDDER
A: fixed version
B: shifting version
Standard equipment: 200 diameter regulation roller - 160 diameter rotor
Optionals: Reversible attachment – Front fixed wheels – Driven by hydraulic motor
DATI TECNICI - TECHNICAL DATAS - TECHNISCHE ANGABEN - DONNÉES TECHNIQUES

TYPE									
	[mm]	[mm]	[mm]	A [Kg]	B [Kg]				[Hp]
VP 90	900	1030	250	278	320	10	20	4	35-45
VP 100	1000	1130	250	311	353	12	24	4	35-45
VP 110	1100	1230	300	344	386	12	24	4	40-50
VP 120	1200	1330	300	377	419	14	28	4	40-50
VP 130	1300	1430	350	410	452	14	28	4	40-50
VP 140	1400	1530	400	425	485	16	32	5	40-50
VP 150	1500	1630	400	435	520	16	32	5	45-55
VP 160	1600	1730	450	470	560	18	36	5	45-60
VP 175	1750	1880	500	499	638	20	40	5	50-70
VP 200	2000	2130	500	609	695	22	44	5	60-80









VL SERIES SHREDDER
A: fixed version
B: shifting version
Optionals: Reversible attachment - Front attachment
Driven by hydraulic motor
DATI TECNICI - TECHNICAL DATAS - TECHNISCHE ANGABEN - DONNÉES TECHNIQUES

TYPE									
	[mm]	[mm]	[mm]	A	B	[Kg]	[Kg]	[mm]	[Hp]
VL 140	1500	1400	450	308	376	16	32	4	35-45
VL 160	1600	1700	450	445	495	18	36	4	40-50
VL 175	1750	1880	500	475	525	20	40	5	45-65
VL 200	2000	2130	500	540	590	22	44	5	50-70
VL 220	2200	2330	500	565	615	24	48	5	55-70
VL 240	2400	2530	500	590	640	26	52	5	60-80
VL 260	2600	2730	500	660	730	36	-	5	70-90
VL 280	2800	2930	500	710	760	38	-	5	75-100









MT SERIES SHREDDER
Standard equipment: Rounded side - 160 diameter regulation roller - 133 diameter rotor
Optionals: Reversible attachment – Front fixed wheels – Driven by hydraulic motor
**DATI TECNICI - TECHNICAL DATAS
TECHNISCHE ANGABEN - DONNÉES TECHNIQUES**

TYPE									
	[mm]	[mm]	[mm]	A	B	[Kg]	[Kg]	[mm]	[Hp]
MT 100	1000	1100	250	310		12	24	3	30-40
MT 110	1100	1200	300	327		12	24	3	35-45
MT 120	1200	1300	300	342		14	28	3	35-45
MT 130	1300	1400	350	363		14	28	4	40-50
MT 140	1400	1500	400	385		16	32	4	40-50
MT 150	1500	1600	400	410		16	32	4	45-55
MT 160	1600	1700	450	434		18	36	4	45-60
MT 175	1750	1880	500	481		20	40	5	50-70

MTP SERIES SHREDDER
Standard equipment: 200 diameter regulation roller
160 diameter rotor
Optionals: Front fixed wheels

DATI TECNICI - TECHNICAL DATAS TECHNISCHE ANGABEN - DONNÉES TECHNIQUES								
TYPE	 [mm]	 [mm]	 [mm]	 [Kg]				 [Hp]
MTP 120	1200	1330	300	419	14	28	5	40-50
MTP 130	1300	1430	350	452	14	28	5	40-50
MTP 140	1400	1530	400	485	16	32	5	40-50
MTP 150	1500	1630	400	520	16	32	5	45-55
MTP 160	1600	1730	450	560	18	36	5	45-60
MTP 175	1750	1880	500	604	20	40	5	50-70
MTP 200	2000	2130	500	695	22	44	5	60-80
MTP 220	2200	2330	500	798	24	48	5	70-90
MTP 240	2400	2530	500	862	26	52	5	80-100


MTX SERIES SHREDDER
Standard equipment: 200 diameter regulation roller
160 diameter rotor
Optionals: Front fixed wheels

DATI TECNICI - TECHNICAL DATAS TECHNISCHE ANGABEN - DONNÉES TECHNIQUES								
TYPE	 [mm]	 [mm]	 [mm]	 [Kg]				 [Hp]
MTX 130 S.L.	1400	1300	350	362	14	28	5	40-60
MTX 140 S.L.	1500	1400	400	390	16	32	5	40-60
MTX 150 S.L.	1600	1500	400	420	16	32	5	45-65
MTX 160 S.L.	1730	1600	450	449	18	32	5	45-70
MTX 175 S.L.	1880	1750	500	504	20	36	5	50-80
MTX 200 S.L.	2130	2000	500	522	22	44	5	60-80


MTE SERIES SHREDDER
Standard equipment: 200 diameter regulation roller
160 diameter rotor
Optionals: Front fixed wheels
DATI TECNICI - TECHNICAL DATAS - TECHNISCHE ANGABEN - DONNÉES TECHNIQUES

TYPE	 [mm]	 [mm]	 [mm]	 [Kg]				 [Hp]
MTE 100	1000	1130	250	354	12	24	5	30-40
MTE 110	1100	1230	300	376	12	24	5	35-45
MTE 120	1200	1330	300	397	14	28	5	35-45
MTE 130	1300	1430	350	422	14	28	5	40-60
MTE 140	1400	1530	400	450	16	32	5	40-60
MTE 150	1500	1630	400	480	16	32	5	45-65
MTE 160	1600	1730	450	509	18	36	5	45-70
MTE 175	1750	1880	500	564	20	40	5	50-80

MPF - MPFX SERIES SHREDDER
A: fixed version B: fixed version Optionals: Front fixed wheels
**DATI TECNICI - TECHNICAL DATAS
TECHNISCHE ANGABEN - DONNÉES TECHNIQUES**









TYPE	 [mm]	 [mm]	 [mm]	 [Kg]			 [Hp]
				A	B		
MPF / MPFX 130	1300	1460	400	652	716	14	60-70
MPF / MPFX 140	1400	1560	400	768	741	16	65-80
MPF / MPFX 160	1600	1760	450	715	788	18	70-90
MPF / MPFX 180	1800	1960	500	762	854	20	75-95
MPF / MPFX 200	2000	2160	500	795	873	22	80-100
MPF / MPFX 220	2200	2360	500	862	938	24	90-110
MPF / MPFX 240	2400	2560	500	907	983	28	100-120

AB SERIES SHREDDER

DATI TECNICI - TECHNICAL DATAS TECHNISCHE ANGABEN - DONNÉES TECHNIQUES		
TYPE	VOLUME [m ³]	 [Kg]
AB 130	1.2	530
AB 150	1.4	630
AB 200	2.1	870
AB 220	2.3	1050
AB 240	2.5	1160
AB 260	2.7	1280
AB 280	3.0	1390

VX SERIES SHREDDER

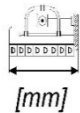
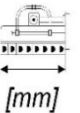
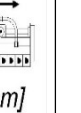







**Standard equipment: 244 diameter regulation roller
300 diameter rotor**

DATI TECNICI - TECHNICAL DATAS TECHNISCHE ANGABEN - DONNÉES TECHNIQUES								
TYPE	 [mm]	 [mm]	 [mm]	 Kg			 6	 [Hp]
VX 280	2800	2960	600	1490	30	60	6	120-150
VX 300	3000	3160	600	1570	32	64	6	120-160
VX 320	3200	3360	600	1640	34	68	6	130-180

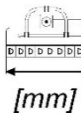
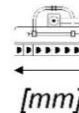
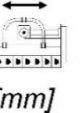




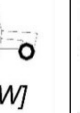
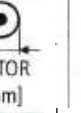
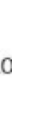
ROAD SERIES SHREDDER
Optionals for models ROAD VG 140/150/160/175/200/240: Bin in Strenx
Optionals for models ROAD VP 150/160/175/200: The machine may also not mount the internal doubling.

DATI TECNICI-TECHNICAL SPECIFICATIONS-DATOS TÉCNICOS-TECHNISCHE DATEN-DONNÉES TECHNIQUES							
TYPE	 [kg]	 [kW]	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
ROAD L 100	295	20-25	1000	650	1560	1660	1800
ROAD L 130	315	20-30	1300	950	1560	1660	2100
ROAD L 145	331	25-35	1450	1100	1560	1660	2250
ROAD L 160	335	30-40	1600	1250	1560	1660	2400
ROAD LP 130	352	20-30	1300	950	1560	1660	2100
ROAD LP 160	375	30-40	1600	1250	1560	1660	2400
ROAD MTL 120	334	25-35	1200	2000	1200	1460	2000
ROAD MTL 130	358	30-40	1300	950	1610	1710	2100
ROAD MTL 140	382	35-45	1400	1050	1610	1710	2200
ROAD MTL 160	415	40-50	1600	1250	1610	1710	2400
ROAD MTL 180	415	45-55	1800	2600	1600	1460	2600
ROAD MTL 200	415	45-55	2000	2800	1700	1460	2800
ROAD V 140	538	40-50	1400	730	1890	1990	2400
ROAD V 150	563	45-55	1500	830	1890	1990	2500
ROAD V 160	587	45-60	1600	930	1890	1990	2600
ROAD V 175	670	50-70	1750	1080	1080	1990	2750
ROAD V 200	750	60-80	2000	1330	1930	1990	3000
ROAD VP 150	673	50-70	1500	830	1930	1990	2500
ROAD VP 160	720	60-80	1600	930	1930	1990	2600
ROAD VP 175	745	70-90	1750	1080	1930	1990	2750
ROAD VP 200	795	80-100	2000	1330	1930	1990	3000
ROAD VG 140	595	40-50	1400	730	1950	2050	2400
ROAD VG 150	623	45-55	1500	830	1950	2050	2500
ROAD VG 160	650	55-80	1600	930	1950	2050	2600
ROAD VG 175	700	60-80	1750	1080	1950	2050	2750
ROAD VG 200	780	75-95	2000	1330	1950	2050	3000
ROAD VG 220	960	80-100	2200	3200	2200	1740	3200
ROAD VG 240	1140	85-120	2400	1730	1950	2050	3400
ROAD VL 160	605	45-65	1600	2600	1600	1740	2600
ROAD VL 175	635	50-70	1750	1080	1890	1990	2750
ROAD VL 200	685	60-80	2000	1330	1950	2050	3000
ROAD VL 220	975	80-100	2400	1730	1950	2050	3400

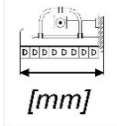
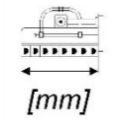
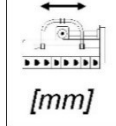




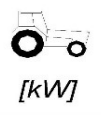
VG 1 SERIES SHREDDER
A: fixed version
B: fixed version
**Optionals: Reversible attachment - Front attachment - Group in center - Bin in HardoX
- Front fixed wheels - Driven by hydraulic motor**
**DATI TECNICI - TECHNICAL SPECIFICATIONS - DATOS TÉCNICOS - TECHNISCHE DATEN -
DONNÉES TECHNIQUES**

TYPE	 [mm]	 [mm]	 [mm]	 [kg]					 [kW]	 ROTOR [mm]	 Ø RULLO [mm]
VG 140/1	1400	1530	400	312	385	16	32	4	40-50	160	160
VG 150/1	1500	1630	400	344	452	16	32	4	45-55	160	160
VG 160/1	1600	1730	450	452	530	18	38	4	45-60	160	160
VG 175/1	1750	1880	500	480	560	20	40	5	50-70	160	160
VG 200/1	2000	2130	500	550	625	22	44	5	60-80	160	200
VG 220/1	2200	2330	500	625	705	24	48	5	70-90	200	200
VG 240/1	2400	2530	500	695	770	26	52	5	80-100	200	200

VG 2 SERIES SHREDDER
A: fixed version
B: fixed version
**Optionals: Reversible attachment - Front attachment - Group in center - Bin in Strenx
or HardoX - Front fixed wheels**
**DATI TECNICI - TECHNICAL SPECIFICATIONS - DATOS TÉCNICOS - TECHNISCHE DATEN -
DONNÉES TECHNIQUES**

TYPE	 [mm]	 [mm]	 [mm]	 [kg]					 [kW]	 ROTOR [mm]	 Ø RULLO [mm]
VG 180/2	1800	1960	500	677	753	20	40	6	65-85	220	245
VG 200/2	2000	2160	600	722	798	22	44	6	70-90	220	245
VG 220/2	2200	2360	600	767	843	24	48	6	80-100	220	245
VG 240/2	2400	2560	600	813	889	26	52	6	80-100	220	245
VG 260/2	2600	2760	600	859	935	28	56	6	90-110	220	245
VG 280/2	2800	2960	600	907	983	30	60	6	90-100	220	245

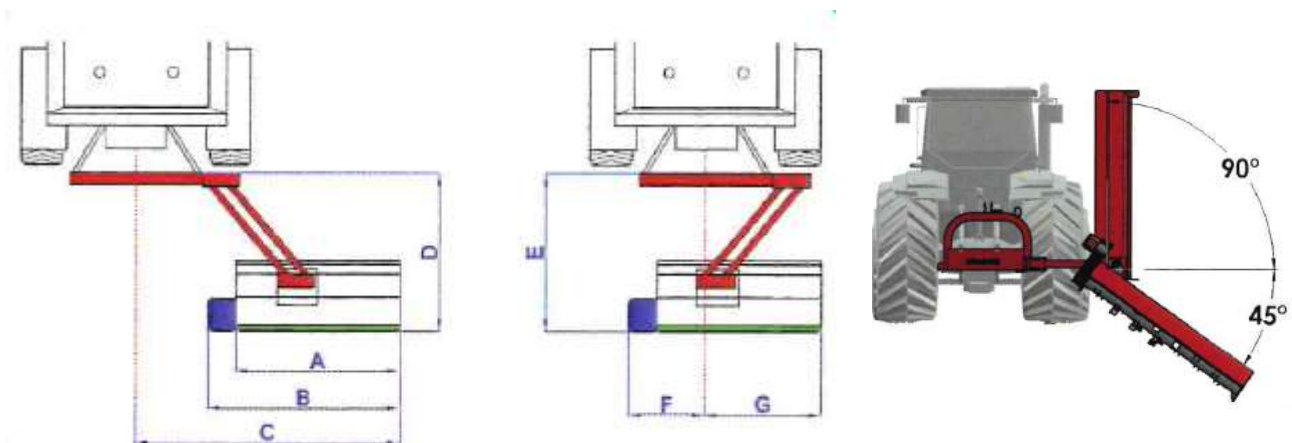
VG 3 SERIES SHREDDER
A: fixed version
B: fixed version
Optionals: Reversible attachment - Front attachment - Bin in Strenx - Front fixed wheels
**DATI TECNICI - TECHNICAL SPECIFICATIONS - DATOS TÉCNICOS - TECHNISCHE DATEN -
DONNÉES TECHNIQUES**

TYPE									
	[mm]	[mm]	[mm]	[kg]	[kg]	[mm]	[mm]	[kW]	[kW]
VG 220/3	2200	2360	600	892	970	24	48	6	80-100
VG 240/3	2400	2560	600	967	1045	26	52	6	80-100
VG 260/3	2600	2760	600	1042	1120	28	26	6	90-110
VG 280/3	2800	2960	600	1117	1195	30	60	6	90-110
VG 300/3	3000	3160	600	1217	1255	32	64	6	100-120
VG 320/3	3200	3360	600	1247	1325	34	68	6	100-120

**SHREDDER series L- LP- MTL- V - VP - VL - MT - MTP- ROAD – AB - VN – VG 1/2/3 – MTX – MTE
– VX – MPF – MPFX - COBRA**

COBRA SERIES SHREDDER
Equipment: Double PTO shaft
**DATI TECNICI - TECHNICAL DATAS
 TECHNISCHE ANGABEN - DONNÉES TECHNIQUES**

TYPE	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	 (kg)
COBRA 160	1600	2020	3000	2300	2200	890	1130	785
COBRA 175	1750	2170	3150	2300	2200	890	1280	835
COBRA 200	2000	2420	3400	2300	2200	890	1530	915
COBRA 220	2200	2620	3600	2300	2200	890	1730	1180
COBRA 240	2400	2820	3800	2300	2200	890	1930	1275



Identification of components



- A. "Third point" joint
- B. Lateral joints
- C. PTO shaft connection
- D. Hydraulic pipe supports
- E. Front straps

- F. Lateral support slides
- G. Transmission belts
- H. Hydraulic cylinder
- I. Roller
- J. Knives-bearing rotor
- L. PTO shaft

1.4.2 Optionals

Light kit

Panels

Rear wheels replacing the roller

Reversible attachment

Front connection

Mechanical side shifting

Weed kit

slides

rake tines (V and VP)

front wheels

dust preventing panels

hydraulic drive

THE FOLLOWING SAFETY INSTRUCTIONS ARE TO PROTECT YOU: THUS THEY NEED TO BE READ CAREFULLY, MEMORISED AND ALWAYS APPLIED

2 SAFETY INSTRUCTIONS

Use the machine, perform the periodic checks and maintenance jobs in compliance with the requirements of current safety laws.

Failure to comply with basic safety laws or instructions may cause accidents during machine operation, maintenance and repair.

The DRAGONE SHREDDER has been built and designed exclusively for shredding grass, brushwood, prune remaining and corn trees, any other type of use must be authorised explicitly and in writing by the Parent Company.

Any changes to the equipment not previously authorised by the Manufacturer (in writing), shall exclude all its liability.



ATTENTION

The DRAGONE company shall not be held liable for any damages caused by unforeseen or inadequate use of the machine.

The machine must only be used by authorised and trained personnel and who know its operation and hazards.

In the event of doubts, contact the Company's technicians directly.

All of the instructions listed below must be carefully followed.

**SHREDDER series L- LP- MTL- V - VP - VL - MT - MTP- ROAD – AB - VN – VG 1/2/3 – MTX – MTE
– VX – MPF – MPFX - COBRA**

2.1 SAFETY AND ACCIDENT PREVENTION RULES



WARNING

Always check the machine carefully before starting it.

The DRAGONE Company cannot foresee every possible circumstance capable of entailing a potential hazard. Therefore, the warnings present in this document and on the product are not exhaustive.

- Comply with all general safety and accident prevention rules in addition to the warnings contained in this handbook. Do not operate the machine or perform maintenance until the instructions have been read and understood.
- The signs affixed on the machine provide a series of important indications: their observance is for your safety.
- Make sure all of the safety pictograms are legible. Clean them and replace them with new labels if necessary.



ATTENTION

Before beginning to use the machine it is necessary to be familiar with all of its devices, controls and functions and to carefully read this handbook.

- Before using the machine make sure that all of the safety devices are correctly positioned in place and in good conditions; if any faults or damage occurs to the guards replace them immediately. In particular make sure that the front panels are present and intact, free to swing around the bolt on which they are hinged.



ATTENTION

Before getting down from the tractor and before every maintenance operation, set the parking brake, turn off the engine and remove the ignition key from the start panel.



ATTENTION

Before using the machine make sure that there are no people or animals within a radius of 50 meters.

- This handbook must always be kept on hand in order to be able to consult it to check the operative cycle. If it gets lost or damaged ask the *DRAGONE* company for a replacement copy.

- **The machine must only be used by authorised, instructed and trained personnel.**
- **The machine is to be used by only one operator.**
- Never work with this machine if tired, ill or under the effect of alcohol, drugs or medicine.
- The operator assigned to the machine should not wear clothing or accessories that can cause being drawn in (sleeves without closed cuff, belts, necklaces, bracelets, rings, etc.).
- Dust may be created when using the shredder if working on dry ground. It is advisable to use tractors equipped with a cab with filters on the ventilation system or, to use suitable systems for protecting the respiratory tract such as dust masks or masks with a filter.
- Do not move the machine while the shredder is operating.
- The machine must not be left unsupervised when it is on.
- Check that the machine was not damaged during shipping, if so notify the Company *DRAGONE* immediately.
- Keep the machine free from foreign material (waste, equipment and various objects) that could damage its operation or injure the operator.

**DANGER**

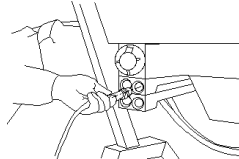
It is absolutely forbidden to climb on or be transported by the machine when it is moving.

- Make sure that the PTO shaft is correctly engaged after each machine connection operation.
- Disconnect the machine from the tractor only on compact, flat ground, make sure that it is stopped and stable.
- Use the machine with sufficient natural light or, alternatively, use the tractor lighting system.

**ATTENTION**


Make sure that the PTO shaft protections are intact and in good conditions.

- In the event of breakage or deterioration of the PTO shaft protections, have them replaced immediately.



Make sure that the hydraulic pipes are connected correctly observing the colour recognition code and remembering that their inversion causes movements opposite to those controlled.


- Check for wear on the hydraulic pipes. Have them replaced if they are deteriorated In any case replace the hydraulic pipes every 5 years.
- When the machine is not connected to the power unit, the hydraulic pipes must be placed in their specific supports.



ATTENTION


Do not stand for any reason between the tractor and shredder with the engine on and PTO connected.



ATTENTION



Make sure the shredder is completely stopped before going near the machine.


Prolonged use of the shredder may cause heating of the gearbox, belt protection carter and hydraulic circuit elements. DO NOT touch these elements during and immediately after use to avoid burns.



- Any changes to the machine may cause safety problems. In this case the user shall be solely liable in the event of accidents.

DANGER



do not tamper with, remove or make inefficient the protections and safety devices applied to the machine for the safety of the operator and others.

Only the user may carry out the maintenance operations described in this handbook.

2.2 OPERATOR TRAINING

In accordance with the Machinery Directive 2006/42/EC and the European Directives on Safety in the Workplace, the operators must be:

- Trained
- Informed
- Educated on the residual risks present.

Training on safe use of the machine is the obligation of the Employer who installs the machine (Customer's responsibility) since his operators need to be trained informed and educated in order to work safely.

According to the EU safety laws (for example in Italy Legislative Decree 81/08 et seqq. which repealed Legislative Decree 626/94) the customer Employer must ensure that specific training is performed with the introduction of new work equipment or new technologies and new hazardous substances and preparations.

Training on these new risks introduced by the machine must be done by an expert person and in the workplace (article 37 of Legislative Decree 81/08 et seqq.).

2.3 PPE OBLIGATION (PERSONAL PROTECTION EQUIPMENT)



- 1) Protective gloves.
- 2) Adequate work clothing.
- 3) Safety shoes.
- 4) Protect hearing.
- 5) Protect eyes.

2.4 WORKER OBLIGATIONS ACCORDING TO THE EUROPEAN DIRECTIVES

Each worker must take care of his own health and safety and that of the other people present in the workplace, who will be affected by his actions or lack thereof, in compliance with his training, instructions and equipment provided by the employer.

Specifically, workers must:

- a) contribute, along with the employer, managers and safety officers to fulfill the obligations required to protect health and safety in the workplace;
- b) follow the measures and instructions given by the employer, managers and safety officers, for the purposes of collective and individual protection;
- c) correctly use work equipment, hazardous substances and preparations, transport vehicles and safety devices;
- d) appropriately use the protection devices made available to them;
- e) immediately notify the employer, manager or safety officer of shortcomings of equipment or devices as per letters c) and d), as well as any dangerous condition they learn of, acting directly, if urgent, within their area of expertise and possibility with the exception of the obligation as per letter f) to eliminate or reduce serious and impending dangerous situations by informing the worker safety representative;
- f) not remove or modify safety devices, signs or control devices without authorisation;**
- g) do not perform operations or maneuvers on their own initiative that are not their responsibility or which can compromise their safety or that of other workers;
- h) participate in education and training programmes organised by the employer;

2.5 SAFETY SIGNS

	<p>ATTENTION</p>
<p>Make sure the safety pictograms are legible. Clean them using a cloth, water and soap. Remove damages labels placing them in the exact position as described below.</p>	

2.5.1 Location of pictograms on the machine

1 2 3 4 5 6 7 8
9 10 11 12 13 14

15



SAFETY DISTANCE



17

17

**SHREDDER series L- LP- MTL- V - VP - VL - MT - MTP- ROAD - AB - VN - VG 1/2/3 - MTX - MTE
- VX - MPF - MPFX - COBRA**

DESCRIPTION OF PICTOGRAMS



1. WARNING Adjustment and maintenance operations must be carried out after having read the use and maintenance handbook, with the machine stopped and ignition key disengaged



2. WARNING - DANGER fluids under pressure. Read the handbook before intervening and consult a doctor if injured.



3. WARNING Check the rotation direction and rpm (1000 rpm) of the tractor PTO before inserting the PTO shaft.



4. WARNING - DANGER Make sure the Shredder is completely stopped before going near it.



5. WARNING – DANGER of shearing the feet. Maintain a safe distance



6. WARNING Possible throwing of material and/or objects, *do not stand, walk by or approach the machine.*

Keep a minimum safety distance of 70 m from the machine



7. WARNING It is forbidden to go on the machine when it is moving.



8. WARNING Danger of being drawn in and dragged. Keep hands away from the transmission shaft when it is in motion.



9. WARNING Do not stand between the tractor and the machine.



10. DANGER of collision for the legs. Keep the proper distance.



11. DANGER of crushing / shearing hands.



12. WARNING Hot surface. Keep the proper distance



13. WARNING Do not remove or open the protection carters until the belts have completely stopped.



14. WARNING DANGER of being crushed. Do not stand in the maneuver and lateral shifting area of the machine.



15. WARNING: for lifting only hook the machine in the indicated points.



16. Use the required Personal Protection Equipment.



17. Greasing points (see par. 6.4)

3 TRANSPORT AND INSTALLATION

3.1 UNPACKING AND POSITIONING

Pay utmost attention to safety during loading and unloading operations, which must be performed by qualified personnel (slingers, truck operators, etc.).

For transport the machine must be positioned on pallets, fixed with suitable belts, and moved via loader with a suitable lifting capacity.

Do not lift the machine with belts.



To lift the machine use safety hooks or cables with a suitable capacity to insert in the eyebolts for lifting indicated by the pictograms applied to the machine.



ATTENTION

Before using check and restore the oil level in the transmission unit to the optimal level (see the instructions in paragraph 6.4).

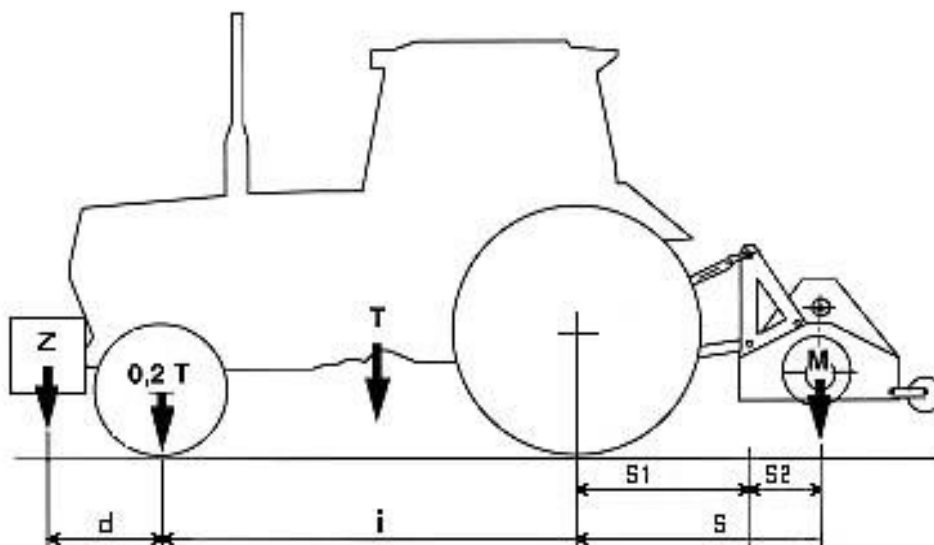
3.2 STORAGE

The machine needs to be stored if it is inactive:

- In a closed place protected from inclement weather;
- Protected from collisions and stress;
- Protected from contact with corrosive substances;
- Disconnected from the tractor;
- Positioned horizontally secured with wedges or other accessories to prevent uncontrolled and dangerous movements.

3.3 CHECKING THE LIFTING CAPACITY AND STABILITY OF THE TRACTOR

Check the lifting capacity and stability of the tractor using the following formula and applying ballasts in the front if necessary.



$$M \times s \leq 0,2 T \times i + Z (d + i)$$

$$M \leq 0,3 T$$

i	=	axle base wheels tractor
d	=	distance of the front axle from the ballasts
S	=	overhang of the rear axle of the operator machine S = S1 + S2
S1	=	distance of the tractor front axle to the end lifting arms
S2	=	distance of the shredder barycentre to the centre holes lifting pins
T	=	mass of the tractor + 75 kg (operator)
Z	=	Mass of the ballasts
M	=	mass of the machine at full load



DANGER !

It is obligatory to check the tractor lifting capacity and stability to prevent it from overturning and/or loss of adhesion of the steering wheels.

SHREDDER MODEL		S2 [mm]
L - LP		420
MTL		440
VN 100 - 175		700
VN 200 (and vN with larger rotor)		730
V AND MT (FROM 90 TO 175) AND VL 140 - 175		480
V AND MT (200 – 240), VP, MTP MTE, MTX		510
VL 200 -280		520
VG/1 140 - 240		530
VG/2		550
VG/3		560
VX		580
MPF AND MPFX		540
AB 130 - 240		750
AB 130 – 240 (LARGER BIN)		850
AB 260 - 280		780
AB 260 – 280 (LARGER BIN)		900
COBRA 160 - 240		1650
ROAD	L 100	1100
	L 130	1130
	L 145	1150
	L 160	1170
	LP 130	1140
	LP 160	1180
	V 140	1270
	V 150	1285
	V 160	1300
	V 175	1330
	V 200	1420
	VP 150	1340
	VP 160	1370
	VP 175	1410
	140 VG	1330
150 VG	1350	
160 VG	1380	

ROAD	175 VG	1425
	200 VG	1440
	240 VG	1570
	175 VL	1330
	200 VL	1420
	240 VL	1450

***SHREDDER series L- LP- MTL- V - VP - VL - MT - MTP- ROAD – AB - VN – VG 1/2/3 – MTX – MTE
– VX – MPF – MPFX - COBRA***

3.4 ON ROAD TRANSPORT



ATTENTION

- For on road transport it is necessary to:
- affix appropriate signs for oversize load;
 - scrupulously follow current traffic laws.

If the shape of the machine covers the tractor rear lights, a bar of rear signalling lights must be mounted.

Along with compliance with the laws, it is important to remember that for driving on public roads utmost attention should be paid, in addition to any particular requirements in the vehicle registration document, to the selection of an appropriate transfer speed especially with mounted machines with strong front and rear jolts or when the road is crowded, tortuous or sloped.

In the "Road" version models the shredding equipment, during the circulation on public roads, must be maintained in horizontal position respect to the ground and blocked by closing the special blocking tap as shown in the picture:



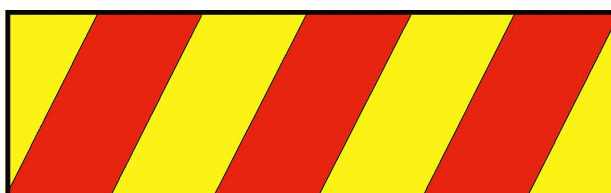
Closed tap – Transport position



Open tap – Working position

When going on the road after working, pay attention to the cleanliness of the tyres and working parts to avoid making the road dirty with soil or other material.

For road travel with the tractor the machine must be equipped with oversize warning panels (no. 2 placed laterally).



3.5 ATTACHMENT TO THE TRACTOR

Behaviour on the road, the capability to steer and brake are affected by the mounted equipment.

The front tractor axle is lightened in relation to the weight attached at the time of coupling to the lifting arm: the load of the front axle must be at least 20% of the weight of the empty tractor.

Before connection of the machine to the three points joint, position the tractor safety device so that it is impossible to lift and lower unintentionally or accidentally.

The three points joint of the tractor and machine must coincide or be adapted.

In the rods zone of the rear lifting arms of the tractor there is a danger of injury due to crushing and cutting points.

Do not use the outside control for lifting the machine.

In the transport position block the side halt of the rods and the lifting control lever.

3.6 CONNECTIONS



ATTENTION




Always use Personal Protection Equipment (safety shoes, work gloves and uniform)

3.6.1 Assembly of the shredder and regulations

The machine is equipped with bolts for the tractor 3 points joint.

Operate as follows to connect the machine structure to the tractor:

- Approach the tractor to let the lifter bars coincide with the 3 points joint and connect them with the supplied bolts.



ATTENTION

Insert and block the safety plugs in the bolt holes. Insert the safety plugs in the bolt holes and make sure they are blocked. In conditions of highly sloped ground insert the third point in the buttonhole.

- Connect the third point to the upper joint and regulate it to position the machine parallel to the ground. Make sure that the rotor shaft knives or hammers, when the machine is on the ground, do not touch the ground during rotation. In the versions equipped with vertical slide make sure they are touching the ground along all of its surface.

To prevent the knives and hammers from going into the ground the height of the rear roller needs to be regulated by loosening the blocking screw and inserting it in the chosen hole.

- Lift the machine and use the rods of the lifter bars to block the movement.



ATTENTION

Position the tractor in a flat area to prevent lateral load of the machine on the rods. Stop the engine and block the brakes before making the regulation.



In the versions equipped with wheel (upon request) their height needs to be regulated by withdrawing the fixing nut and positioning it in the desired holes.

Regulate the height of the rear rake tines (upon request) according to the type of work to be performed.

3.6.2 Connection to the PTO shaft

After performing these operations, the PTO transmission shaft can be connected to the grooved shaft of the machine gearbox (covered with a protection counterguard) and then to the tractor PTO:

- clean and grease the PTO;
- if necessary, grease the PTO shaft following the instructions provided by the PTO shaft manufacturer (see the PTO shaft Use and Maintenance Handbook):
- clutch the PTO shaft following the instructions given by the manufacturer and indicated on the outside covering of the protection.
- Hitch the anti-rotation chain.
- Make sure that the anti-withdraw safety block (push button) is correctly inserted and blocked in its housing.



ATTENTION

Make sure the tractor PTO speed regulation is on a value of 1000 rpm.

The PTO shaft must always be the last thing connected to the tractor PTO and the first thing disengaged when done working.

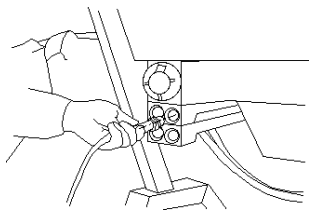
When the PTO shaft is disengaged it must be connected to the specific support.
For correct and safe machine operation, ***only use PTO shafts with the CE marking.***
The PTO shaft length must be suitable for the type of tractor used.

The DRAGONE company does not consider itself liable for damage caused by an incorrect assembly and use of the PTO transmission.

3.6.3 Hydraulic connections for lateral shifting

Switch the engine off (if on), set the handbrake and remove the ignition key from the start panel. Make sure there is no pressure in the tractor hydraulic system.


Connect the hydraulic pipes with rapid clutch to the tractor after making sure that all of the joints are clean and in good conditions.



Make sure that the hydraulic pipes are connected correctly observing the colour recognition code and remembering that their inversion causes movements opposite to those controlled.

Pressurise the hydraulic system, make sure that there are no drippings and that the connection is correct.

As soon as the shredding operations have been completed, the hydraulic pipes released from the tractor must be fixed in the specific supports for this purpose.



WARNING

Before connecting/disengaging the hydraulic pipes stop the tractor engine and activate the control levers in both directions to let the oil flow out of the system.


4 USE OF THE MACHINE





Always use Personal Protection Equipment (safety shoes, work gloves, uniform, protective glasses and headsets for noise)

ATTENTION



ATTENTION

Before using the machine make sure that there are no people or animals within a radius of 50 meters.

Before starting to work the machine needs to be regulated in order to obtain the best work trim (see “Assembly and regulations”, par. 4.1.1).

In the models equipped with bearing foot (“Road” versions), remember to let them completely retract and block them with the specific safety bolts.

Inspect a short section and see if the obtained work is satisfactory, if it is not, it is necessary to review the machine regulations.



Before getting down from the tractor and before every maintenance and regulation operation set the parking brake, turn off the engine and remove the ignition key from the start panel and wait for all mobile parts to stop.

For the best work, it is advisable to proceed at an advancement speed of 2.5 km/h on grassy ground and 2.0 km/h on pruning residual.

Do not take curves with the machine on the ground while working or work backing up.

Always lift the shredder for changes in direction and turns, first disconnecting the PTO.

Dust may be created when using the shredder if working on dry ground. It is advisable to use tractors equipped with a cab with filters on the ventilation system or, to use suitable systems for protecting the respiratory tract such as dust masks or masks with a filter.

5 MAINTENANCE

Consult the use and maintenance handbook before performing any maintenance operations.

In any case only work on the machine if in possession of adequate technical knowledge.



In the event of a breakdown the operator must immediately stop the PTO, remove the ignition key, get down from the tractor to check the entity of the problem proceed with any interventions on the machine

Please remember that all of the maintenance operations must be performed by qualified and trained personnel, with the machine stopped and disengaged from the tractor.

Check for wear on the knives, hammers and their connecting points on a daily basis, immediately replacing worn or damaged ones because if they break they can cause dangerous projections of components.

5.1 MEASURES TO MAKE OPERATIONS SAFE

All routine and extraordinary maintenance operations must be performed in safe conditions:

- All operations need to be performed when the machine is stopped and disconnected from the tractor.
- Do not introduce your hands or foreign bodies between moving parts when the machine is moving.
- Do not disassemble and remove machine parts. The operation is reserved solely for trained technical personnel authorised for maintenance on the machines, who must take care of reassembling it as soon as the operation is completed.
- Always make sure that no foreign bodies have ended up between moving parts during maintenance operations.

5.2 ROTOR

The rotor shaft has been balanced electronically beforehand: if a tool needs to be replaced, it is advisable to replace the entire series. Failure to assemble original parts may cause machine vibrations or breakage of the roller bearings.

The replacement of damaged parts must only be performed by specialised personnel.

For knife replacement operations it is necessary to make avail of specialised personnel using the Assistance Service at the DRAGONE Company or its dealers.

5.3 FRONT PROTECTION BARS

The protection bars must always be in good conditions to prevent possible throwing of material in the front area.


Replace these parts immediately even if slightly bent or worn.

To replace the bars do as follows:

- unscrew the bolt fixing screw on the left side of the machine and withdraw the fixing bolt;
- replace the damaged bars;
- clamp the bolt of the fixing screw.

Only use original spare parts.

5.4 REPLACEMENT AND REGULATION OF THE BELTS OF THE LIFTING UNIT (MODELS WITH “ROAD” EQUIPMENT)

<p style="text-align: center;">WARNING !</p> <p>For this operation it is necessary to make avail of specialised personnel of the Customer Assistance Service of the Company DRAGONE or its local dealers.</p>	
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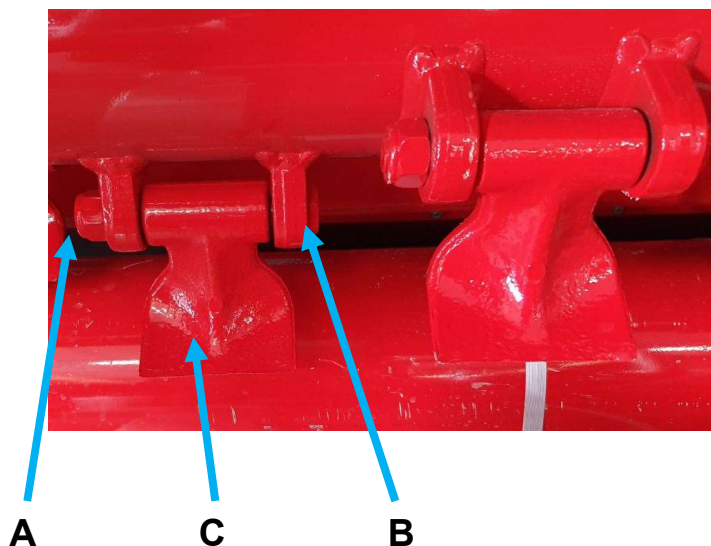
5.5 ROUTINE MAINTENANCE

To ensure optimal machine operation follow the instructions below:

- perform maintenance with the machine disengaged from the tractor and appropriately positioned to ensure stability;
- if this is not possible, remember that any maintenance, regulation and cleaning work needs to be performed with the machine on the ground, tractor engine off, PTO disengaged, handbrake set, ignition key disengaged and removed from the start panel.
- Maintenance operations require an operator with the qualification of mechanical maintenance technician expressly authorised by the machine user company.

The recommended times below, are those indicated by DRAGONE s.r.l. based on processing of the most frequent work situations. Significantly different situations may require increasing or decreasing frequency of the operations based on the specific cases.

REPLACING HAMMERS / KNIVES



In the event of wear or breakage of the hammers and knives replace them by unscrewing the self-locking nut (A) with suitable tightening spanners, remove the pin (B) and disassemble the hammer/knife (C) to replace.

Assemble the new component, reinsert the pin (B) and tighten the self-locking nut.

N.B.: Only use original components supplied by an authorised dealer or directly by Dragone

Every 4 hours of WORK:

Check the tension of the belts, if it is insufficient have them regulated.



WARNING !

Perform this regulation only with the tractor turned off and PTO disengaged, remove the ignition key, wait for all mechanisms to stop.

REGULATION OF THE BELTS

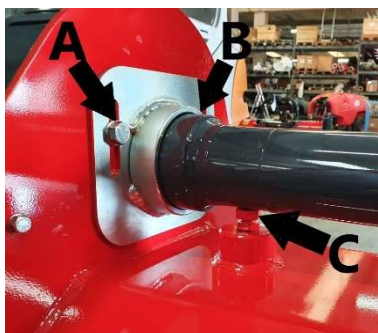
WARNING !

After the first hour of work both for a new machine and after replacing the belts **THE TENSION NEEDS TO BE CHECKED** since they lengthen more in the period.

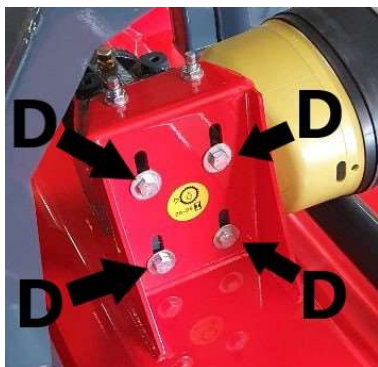
HEIGHT REGULATIONS

The belt tension regulation is done by regulating the height of the multiplier unit.

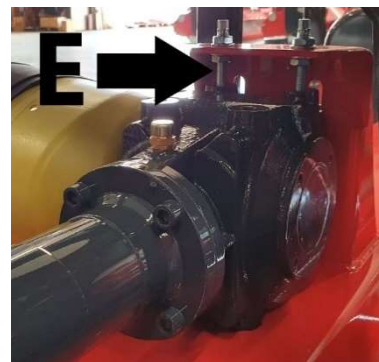
- Unscrew and remove the nuts that block the carter;



- loosen the screws (A and B) that block the support shaft and loosen the counter-nut C



- loosen the screws that block the gearbox on the support shaft (D) and the counter-nuts of the multiplier nuts (E)



- act on the tightening screw until reaching the optimal tension;
- accurately tighten all the bolts and nuts;
- correctly remount the carter and protection.



ATTENTION

The shaft exiting the multiplier, after the regulation, must be parallel to the upper structure of the machine.

REGULATION WITH AUTOMATIC BELT TENSIONER

Belt tension regulation is done automatically through a tension spring automatically tensioned with a threaded rod.



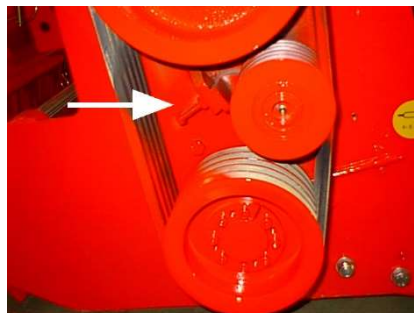
Spring

Rod

REGULATION WITH BELT TIGHTENING SCREW

Belt tension regulation is done by acting on a specific belt tensioning screw.

- Unscrew and remove the nuts that block the carter;
- regulate the belt tension acting on the regulation nut indicated in the figure;
- after the regulation remount the protection carter.

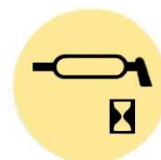
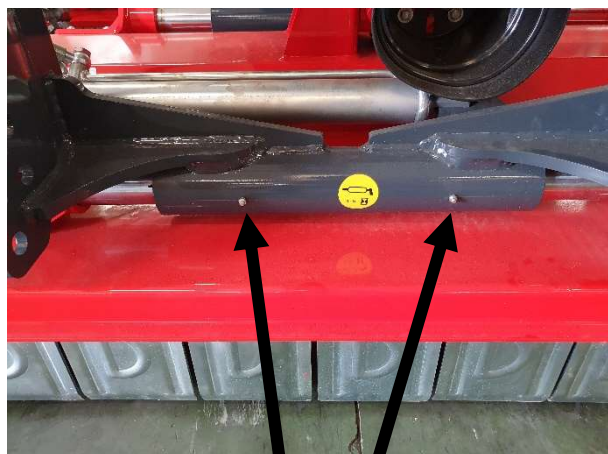
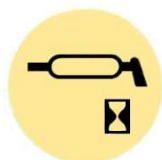


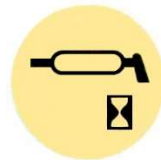
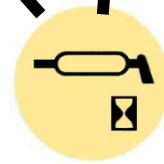
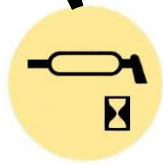
If the belts are new, at least one check needs to be performed after 2 hours of work to check the degree of their settling and the tension grade.

GREASING and LUBRICATION

Every 4 hours of work

- check the clamping of the nuts;
- grease the points indicated in the picture with lithium oil;

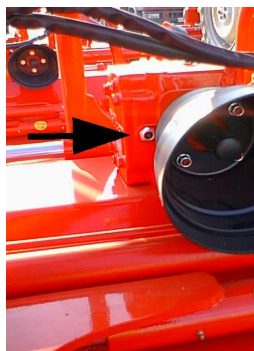




**SHREDDER series L- LP- MTL- V - VP - VL - MT - MTP- ROAD – AB - VN – VG 1/2/3 – MTX – MTE
– VX – MPF – MPFX - COBRA**

After the first 50 hours of work

- check the amount of oil in the transmission unit and restore if necessary to the optimal level as shown in the picture, using the oil type SAE 90 EP API GL4 (the tank has a maximum capacity equal to 1 - 2 kg).



N.B. if you notice oil leaks, contact a specialised technician to check the causes.

Every 100 hours of work

- check the amount of oil in the transmission unit and restore to the optimal level.

**WARNING !**

In machine equipped with hydraulic side shifting, check the wear of the hydraulic pipes on a daily basis and replace them if there are abrasions or cracks. Replace the hydraulic pipes every 5 years max.

PROGRAMME OF PERIODIC OPERATIONS

Correct maintenance and constant checking of the machine ensure a high level of safety.

It is advisable to periodically perform the following operations to complete what is listed in the previous paragraph:

DAILY:

DESCRIPTION	OPERATOR QUALIFICATION
<ul style="list-style-type: none"> • General cleaning of the machine; • Cleaning of accident prevention plates; • Check the intactness and efficiency of mobile parts; • Check for leakage in the pipes; 	<p>Machine operator</p> <p>Mechanical maintenance personnel</p>

MONTHLY:

DESCRIPTION	OPERATOR QUALIFICATION
<ul style="list-style-type: none"> • Check the efficiency of all mobile parts (especially the front straps); • Check the intactness of the hydraulic pipes and connections; • Check the weight-bearing metallic structures; • Greasing. 	<p>Mechanical maintenance personnel</p>

ANNUAL:

DESCRIPTION	OPERATOR QUALIFICATION
<ul style="list-style-type: none"> • Tightening of the machine screws; • Greasing; • Check the general intactness of all the machine parts. 	<p>Mechanical maintenance personnel</p>

5.6 INCONVENIENCES AND REMEDIES

INCONVENIENCES	CAUSES	REMEDIES
Clogging of hammers/knives	<ul style="list-style-type: none"> • Rotor speed is too low 	<ul style="list-style-type: none"> • Increase rotor speed
Excessive wear of hammer/knives	<ul style="list-style-type: none"> • Rotor speed is too high 	<ul style="list-style-type: none"> • Decrease rotor speed
Shredder vibrates during work	<ul style="list-style-type: none"> • Foreign matter stuck in between hammers/knives • Hammer/knives broken or worn • Both of the rotor shaft support bolts have come loose 	<ul style="list-style-type: none"> • Remove foreign matter • Replace hammers • Lock bolts

5.7 REGISTER OF PERIODIC MAINTENANCE OPERATIONS

The register below needs to be filled in each time a routine or extraordinary maintenance operation is performed.

In terms of the replacement operations for particularly important parts for the purposes of intactness, use and machine safety also fill in the replacement cards at the end of the register.

REPLACEMENT OF HYDRAULIC SYSTEM COMPONENTS

Date:

Part:

Manufacturer:

WAS REPLACED WITH

Part:

Manufacturer:

Serial number:

Reason for replacement:

Notes:

The manager of the company engaged for the replacement

The user

Date:

Part:

Manufacturer:

WAS REPLACED WITH

Part:

Manufacturer:

Serial number:

Reason for replacement:

Notes:

The manager of the company engaged for the replacement

The user

***SHREDDER series L- LP- MTL- V - VP - VL - MT - MTP- ROAD – AB - VN – VG 1/2/3 – MTX – MTE
– VX – MPF – MPFX - COBRA***

Date:

Part:

Manufacturer:

WAS REPLACED WITH

Part:

Manufacturer:

Serial number:

Reason for replacement:

Notes:

The manager of the company engaged for the replacement

The user

Date:

Part:

Manufacturer:

WAS REPLACED WITH

Part:

Manufacturer:

Serial number:

Reason for replacement:

Notes:

The manager of the company engaged for the replacement

The user

***SHREDDER series L- LP- MTL- V - VP - VL - MT - MTP- ROAD – AB - VN – VG 1/2/3 – MTX – MTE
– VX – MPF – MPFX - COBRA***

Date:

Part:

Manufacturer:

WAS REPLACED WITH

Part:

Manufacturer:

Serial number:

Reason for replacement:

Notes:

The manager of the company engaged for the replacement

The user

Date:

Part:

Manufacturer:

WAS REPLACED WITH

Part:

Manufacturer:

Serial number:

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The user

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Manufacturer:

WAS REPLACED WITH

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Manufacturer:

Serial number:

Reason for replacement:

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The manager of the company engaged for the replacement

The user

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Part:

Manufacturer:

WAS REPLACED WITH

Part:

Manufacturer:

Serial number:

Reason for replacement:

Notes:

The manager of the company engaged for the replacement

The user

***SHREDDER series L- LP- MTL- V - VP - VL - MT - MTP- ROAD – AB - VN – VG 1/2/3 – MTX – MTE
– VX – MPF – MPFX - COBRA***

REPLACEMENT OF STRUCTURAL MECHANISMS OR ELEMENTS

Date:

Part:

Manufacturer:

WAS REPLACED WITH

Part:

Manufacturer:

Serial number:

Reason for replacement:

Notes:

The manager of the company engaged for the replacement

The user

Date:

Part:

Manufacturer:

WAS REPLACED WITH

Part:

Manufacturer:

Serial number:

Reason for replacement:

Notes:

The manager of the company engaged for the replacement

The user

Date:

Part:

Manufacturer:

WAS REPLACED WITH

Part:

Manufacturer:

Serial number:

Reason for replacement:

Notes:

The manager of the company engaged for the replacement

The user

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Part:

Manufacturer:

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The user

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– VX – MPF – MPFX - COBRA***

Date:

Part:

Manufacturer:

WAS REPLACED WITH

Part:

Manufacturer:

Serial number:

Reason for replacement:

Notes:

The manager of the company engaged for the replacement

The user

Date:

Part:

Manufacturer:

WAS REPLACED WITH

Part:

Manufacturer:

Serial number:

Reason for replacement:

Notes:

The manager of the company engaged for the replacement

The user

***SHREDDER series L- LP- MTL- V - VP - VL - MT - MTP- ROAD – AB - VN – VG 1/2/3 – MTX – MTE
– VX – MPF – MPFX - COBRA***

Date:

Part:

Manufacturer:

WAS REPLACED WITH

Part:

Manufacturer:

Serial number:

Reason for replacement:

Notes:

The manager of the company engaged for the replacement

The user

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Part:

Manufacturer:

WAS REPLACED WITH

Part:

Manufacturer:

Serial number:

Reason for replacement:

Notes:

The manager of the company engaged for the replacement

The user

***SHREDDER series L- LP- MTL- V - VP - VL - MT - MTP- ROAD – AB - VN – VG 1/2/3 – MTX – MTE
– VX – MPF – MPFX - COBRA***

REPLACEMENT OF SAFETY DEVICES AND RELATED COMPONENTS

Date:

Part:

Manufacturer:

WAS REPLACED WITH

Part:

Manufacturer:

Serial number:

Reason for replacement:

Notes:

The manager of the company engaged for the replacement

The user

Date:

Part:

Manufacturer:

WAS REPLACED WITH

Part:

Manufacturer:

Serial number:

Reason for replacement:

Notes:

The manager of the company engaged for the replacement

The user

Date:

Part:

Manufacturer:

WAS REPLACED WITH

Part:

Manufacturer:

Serial number:

Reason for replacement:

Notes:

The manager of the company engaged for the replacement

The user

Date:

Part:

Manufacturer:

WAS REPLACED WITH

Part:

Manufacturer:

Serial number:

Reason for replacement:

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The manager of the company engaged for the replacement

The user

***SHREDDER series L- LP- MTL- V - VP - VL - MT - MTP- ROAD – AB - VN – VG 1/2/3 – MTX – MTE
– VX – MPF – MPFX - COBRA***

Date:

Part:

Manufacturer:

WAS REPLACED WITH

Part:

Manufacturer:

Serial number:

Reason for replacement:

Notes:

The manager of the company engaged for the replacement

The user

Date:

Part:

Manufacturer:

WAS REPLACED WITH

Part:

Manufacturer:

Serial number:

Reason for replacement:

Notes:

The manager of the company engaged for the replacement

The user

SPARE PARTS

For worn or malfunctioning parts directly contact the dealer or Dragone which will handle the replacement or repair with their spare parts.



WARNING !

Do not make the machine work with a malfunctioning part because it could damage it, compromise its use, make it unsafe and nullify the warranty if it is still valid.

ONLY USE ORIGINAL SPARE PARTS FROM DRAGONE.

6 EXCLUSION OF LIABILITY

DRAGONE shall not be held liable in the following cases:

- incorrect use of the SHREDDER or by untrained personnel;
- serious shortcomings in scheduled maintenance;
- unauthorised modifications or operations;
- use of non-original spare parts or parts which are not specific for the model;
- total or partial failure to comply with the instructions;
- failure to comply with common safety rules in the workplace;
- exceptional events.

7 TEST REGISTER

The Test Register is prepared to note, based on the proposed schemes, the following events that regard the useful life of the shredder:

- Delivery of the shredder to the first owner.
- Transfer of ownership.

The servicing/inspection cards must be filled in following a change in ownership for legal protection of both the new buyer and the seller.

DELIVERY OF THE SHREDDER TO THE FIRST OWNER

The SHREDDER model:

With serial number:

Year of manufacture:

As per this Test Register has been delivered (tick the box):

by Dragone s.r.l.

by an authorised dealer (stamp and signature):.....

Place and date:

To the Firm / Company / Natural Person:

Tax Code / VAT Number:.....

Based on the established contractual conditions, technical, dimensional and functional specifications specified in the instruction handbook.

***SHREDDER series L- LP- MTL- V - VP - VL - MT - MTP- ROAD – AB - VN – VG 1/2/3 – MTX – MTE
– VX – MPF – MPFX - COBRA***

LATER TRANSFERS OF OWNERSHIP

Place and date:

The ownership of the SHREDDER in question has been transferred

BY Firm / Company / Natural person

Tax Code / VAT Number:.....

TO Firm / Company / Natural person

Tax Code / VAT Number:.....

It is hereby certified that on the above date, the technical, dimensional and functional specifications of the shredder are in compliance with the original ones and that any changes have been noted in this Instruction handbook.

The seller

The buyer

Place and date:

The ownership of the SHREDDER in question has been transferred

BY Firm / Company / Natural person

Tax Code / VAT Number:.....

TO Firm / Company / Natural person

Tax Code / VAT Number:.....

It is hereby certified that on the above date, the technical, dimensional and functional specifications of the shredder are in compliance with the original ones and that any changes have been noted in this Instruction handbook.

The seller

The buyer

Place and date:

The ownership of the SHREDDER in question has been transferred

BY Firm / Company / Natural person

Tax Code / VAT Number:.....

TO Firm / Company / Natural person

Tax Code / VAT Number:.....

It is hereby certified that on the above date, the technical, dimensional and functional specifications of the shredder are in compliance with the original ones and that any changes have been noted in this Instruction handbook.

The seller

The buyer

8 WARRANTY CONDITIONS

8.1 DURATION OF THE WARRANTY PERIOD

The manufacturer guarantees its products for a period of 12 (twelve) months from the date of delivery to the user, establishing that the warranty is activated within 15 (fifteen) days from the date of delivery (based on the delivery document and date of the postmark).

The warranty can be activated from the website www.dragonweb.org or with the form attached hereto which must be completely filled in and sent to the manufacturer.

8.2 WARRANTY CONDITIONS

Claims for any defects/flaws of the goods must be made within 8 days from the date they are received or from when hidden defects are discovered in writing and by registered letter.

During the warranty **period** Dragone SRL agrees to provide under warranty every part to replace according to its assessment or that of its authorised representatives, related to defective parts both in terms of material and workmanship.

Shipping expenses and labor costs are the Customer's responsibility.

The warranty does not include payment for damages due to improper use of the machine by the operator and for parts subject to wear and tear such as: hammers, knives, belts, etc.

DRAGONE shall not be held **liable** for accidents involving the operator or third parties resulting from improper use of the machine. Compensation for damages cannot be requested by the customer except for gross negligence to be proven by the customer.

The warranty shall become null and void when the established procedures and due dates for **payment** are not respected.

Breakage or faults cannot be a reason or cause for late payment, machine breakage or faults during or after the warranty period do not entail any right to suspend payment for goods already delivered.

The warranty shall become **void** if:

1. Repairs and services were performed by individuals or companies not authorised by Dragone SRL;
2. The machine was previously repaired or modified with non-original spare parts;
3. If a modification is made not authorised by Dragone SRL;
4. Improper use of the equipment;
5. Insufficient maintenance and/or lubrication;
6. Exceeding the allowed power limit;
7. The instructions contained in the machine use and maintenance handbook are not followed to the letter.

Dragone SRL reserves the right to make changes at any time to improve its product and is **exonerated** from having to add these modifications to previously manufactured machine already delivered on in the production phase.

These general warranty conditions replace and annul any previous condition, whether expressed or implied.

8.3 WARRANTY CERTIFICATE (BUYER'S COPY)

Customer Information		Machine Type	
Surname:		Model:	
Name:			
Address:		Serial n°:	
		Seller:	
Date filled in:		Delivery date:	
Customer Signature:			

***SHREDDER series L- LP- MTL- V - VP - VL - MT - MTP- ROAD – AB - VN – VG 1/2/3 – MTX – MTE
– VX – MPF – MPFX - COBRA***

WARRANTY CERTIFICATE (manufacturer's copy)

Customer Information		Machine Type	
Surname:		Model:	
Name:			
Address:		Serial n°:	
		Seller:	
Date filled in:		Delivery date:	
Customer Signature:			


WARRANTY CERTIFICATE (copy for DEALER)

Customer Information		Machine Type	
Surname:		Model:	
Name:			
Address:		Serial n°:	
		Seller:	
Date filled in:		Delivery date:	
Customer Signature:			

**SHREDDER series L- LP- MTL- V - VP - VL - MT - MTP- ROAD – AB - VN – VG 1/2/3 – MTX – MTE
– VX – MPF – MPFX - COBRA**

Data protection policy according to article 13 of the European Regulation (GDPR - Reg. E.U. 679/16)

In accordance with article 13 of the EU Regulation 679/16 we are providing the following information on the processing that may take place after filling in and completing the data present on the form you are about to fill in. The data controller is Dragone SRL, Via G. Abbate 189, Castagnole delle Lanze, Asti, Italy. It can be contacted by email at the address info@dragoneweb.org.

The data present on the form will be used, following your consent to process personal data, for the following purpose/s:

- *To provide the warranty service of our products;*
- *Optionally for sending our newsletter (or our promotional communications).*

The aforesaid purpose/s shall be pursued following your optional consent with the procedures indicated on the page to collect your data. We would like to remind you that data marked with the * (asterisk) symbol must be provided to be able to use the services you intend to request; if such data is not provided it may not be possible to provide you with these services and the data may not be acquired, which may be indicated during the filling in phase. Providing the other data on the form is optional and you can decide whether to fill them in.

The controller's data processing may learn of the data you communicate in performing the services you request and in the technical management of the website (limited to cases where this has been demonstrated to be indispensable) and any third parties involved in performing the same activities in the capacity of data processors.

Other than that the provided data will not be communicated to third parties, and remain known solely within the company.

The data shall remain stored until completion of the requested services or your request for erasure, and, in the event of organisational needs or legal obligations, they may be stored in specific archives for the period strictly necessary for these purposes.

We would like to remind you that you have the right to ask for data controller for access to your personal data, rectification or erasure of the same, or limitation of the processing and right to object to it, as well as the right to data portability; these rights may be exercised by using the contact information above.

The consent given may be revoked at any time by contacting the data controller at the indicated email addresses or using the procedures indicated by the instruments used for the processing. You also have the right to lodge a complaint with the Supervisory Authority, in Italy represented by the Authority for personal data protection (www.garanteprivacy.it).

Additional information on the data controller and procedures for carrying out processing consequent to browsing this website can be consulted on the page where the website [Privacy Policy](#) is presented.