



Carbo**green**®



FRANTUMIX4

PATENTED IN ITALY

REGENERATOR CRUSHER MIXER FOR POULTRY LITTERS

in sawdust, chips, rice husks, coco fiber, straw and mischantus, also mixed
IT DETACHES, RAISES, CHOPS, SHREDS, TURNS OVER THE BEDDING MATERIAL
INJECTING OXYGEN INTO THE HEART OF THE LITTER

ABSORBES - FERMENTS - EVAPORATES - DRIES - REGENERATES



FEET AND BREAST BONE
ON A SOFT LITTER AFTER
THE PASSAGE OF FRANTUMIX4

A SOFT AND DRY BED

FRANTUMIX4



*The dance of
a happy turkey*

It lowers the costs and assures a 1st quality meat



MOD. 170 FL4
WORK ON THE LITTER FOR CHICKEN

Your best team !

TURKEYS AND BROILER CHICKENS

With Frantumix4, bird-fancying will have a new revolutionary system that allows to solve definitively the problem of the litters, avoiding directly:

- *the emission of powders in too dry litters*
- *the emission of gas in too wet litters*

meeting thus the IPPC (Integrated Pollution Prevention and Control) statements that like more all those techniques with a low energy consumption, economy-wise bearable and with a preventing action.

HOW DOES FRANTUMIXDUE series FM4 WORK?

The new Frantumix4 is the result of a 10 years long experience in machine manufacturing and of the co-operation with the breeders using it.

It is an advanced system to turn over and crumble the entire litter. A scraping blade and a set of knives lifts the litter and mills it pushing the straw towards the rear side of the machine, making it soft and aerated. The machine works perfectly with any kind of material suitable for litter (sawdust, chips, rice husk, coco, straw, mischantus and other). Thanks to the new optional accessory, it is also possible to knock down the powders forming during the processing. spraying adequately, when necessary, also the coco bricks to be shredded. Used also for a correct mixing of the additives.

The machine works smoothly either, at the begin of the cycle, with a straw quantity of 3 to 10 kg/m², or at the end of the cycle when the manure reaches the maximum level (for instance the turkeys' litters can reach a thickness of 25-30 cm at the end of the cycle). The regular turning over of the straw bedding allows a consistent oxygenation of the entire layer and the development of an aerobic process that heats up and stabilizes the manure. The heat generated by the aerobic reaction makes possible the evaporation of the accumulated water and keeps the litter dry reducing to the minimum level the emission of harmful smells. At the end of the cycle the product is already partially impoverished, stabilized and ready for a correct agronomical use, meeting thus the requirements of the societies that execute its transformation. It can be used also for biogas plants.



MOD. 170FM4
WORK ON THE LITTER FOR TURKEYS
110 DAYS CYCLE

IT IS STRICTLY FORBIDDEN TO USE THE MACHINES WITHOUT THE SIDE PROTECTIONS.

Without a good milling device for litters and without a management protocol, that protect the litters against unexpected troubles, the poultry breeding is continuously exposed to risks that can seriously weight upon the profitability of the breeding and upon the quality of the environnement, due to the emissions of powders, gases and smells.

For the preparation of the litters use Frantumix FM4 by tractors with possibly a reduced speed, of middle power, normaly found in the farms, with a 540 rpm PTO, normal gears and engine at low revs, allowing thus to save fuel and to reduce the noise.



PREPARATION OF STRAW LITTERS

- Begin the litter with the input of straw bales (dry threshed) inside the shed, unrolled on the ground, **having absolutely care to remove ropes and nets as they could wrap the rotor causing the breakdown of the transmissions, not under warranty.**
- Pass on the straw layer with a tractor, for 2/3 times, to obtain a crumbled and grinded product, characterized by a mix of sizes ranging between 1 and 10 cm approximately.
- (Optional) front roller to facilitate the placing of the straw in the first step of the Frantumix4, draining also part of the surface dust for a healthier surface, particularly necessary for turkeys breeding, because this can prevent the onset of aspergillosis.

PREPARATION OF LITTERS WITH CHIPS OR OTHER MATERIALS

- Enter the bedding material in the traditional quantity and ways and going through with the Frantumix4 in speed, the surface gets levelled.

PREPARATION OF LITTERS WITH COCO FIBERS BRICKS

- Go through with the Frantumix4 on the coco bricks, arranged in a row or loose inside the shed, with or without the sprayer Plus. In two double passages the coco bricks are crushed in an uniform manner and the litter will be levelled over the entire surface, ready for brooding. Easy and perfect crushing also with dry coco bricks
- **Execution time very short.**

The repeated use, according to the necessity, of Frantumix4, after 8 days for the chicken and 20 days for the turkeys, from the beginning of the cycle, especially near the drinking troughs, detaches, raises, chops, grinds and turns over the litter, injecting there oxygen, promoting the fermentation and reducing the formation of ammonia.

BROILERS BREEDING

Besides series FM4, normally used for turkeys and broilers, there is series FL4 and FT4, lighter and cheaper, used for broilers breeding where the litters are prepared with chips, coco, sawdust and straw grinded before.

Series Frantumix FL4 mod. 110 FL4 - 130 FL4 and 170 FL4 for tractors.

The mod. 088 FT4, is a walking tractors application with patented (for some european countries) selfbalancing system. It is used in little/middle farms where the work is done by one person, also in narrow and cordoned off spaces, without the necessity of a second person that keeps the animals away from the wheels.



- **ATTENTION !! ON MODEL 088FT2**
AFTER HAVING TIGHTENED THE FASTENING SCREWS BETWEEN THE FRANTUMIX FT4 AND THE WALKING TRACTOR, REST THE MACHINE BASE ON THE GROUND AND FIX THE CONNECTING ROD, ALREADY BLOCKED BY WELDING, WITHOUT TAMPERING IT.
ANY ANOMALOUS TAMPERING COULD BREAK THE WALKING TRACTOR'S GEARS. FROM NOW ON CARBOGREEN REFUSES ALL RESPONSIBILITIES WITH REGARD TO THIS.



● IT IS STRICTLY FORBIDDEN TO USE THE MACHINES WITHOUT THE SIDE PROTECTIONS. ●

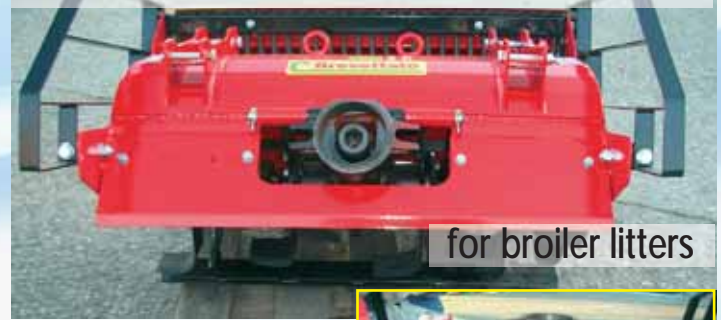
MOD. 088 FT4 - Lateral trasmission
for broiler litters



The lateral transmission facilitates the inflow and the processing of a more challenging material, but it is necessary a modification of the walking tractor.



MOD. 080 F2 - Central internal trasmission



for broiler litters

To be used with a material, previously shredded, in order to allow the inflow towards the inside even if the transmission is central.



THE ADVANTAGES BY USING FRANTUMIX4 ARE VERY HIGH:

- ⌘ Large reduction in the cost of the litter compared to the traditional system;
- ⌘ High reduction in heating-fuel, thanks to the presence of a warm and dry litter;
- ⌘ Yield at the end of the cycle higher compared to a traditional management of the litter with a 1st quality product, due to the constant softness and dry matter content of the litter that minimizes the damage to the feet and sternum.
- ⌘ Work environment much more comfortable thanks to the reduced dust emission and harmful smells.
- ⌘ Conformity with all rules regarding the reduction of emissions into the atmosphere.

⌘ Frantumix4 series FM4 is the only machine able to:

- Chop the straw layers unrolled on the ground to start the litter. Compared to the traditional chopping with mills and straw chopper, the litter is more structured thanks to the presence of a part of straw which, although de-fibred and with a high absorption capacity, is still long.
- Crush the coco bricks, even if not wet, in only 2 passes and the whole surface is ready for brooding.
- Grind and mix the litter when it is necessary to put new straw (especially near the drinking-troughs). After adding the necessary quantity of straw, we suggest to proceed with Frantumix4, but only after 3-4 days, as to enable the animals to clean their feet and to allow the dry straw to absorb the surface dampness, before Frantumix4 mixes it with the pre-existent litter. Dampness will drop, triggering off an aerobic process that will raise the inside temperature of about 3°;
- In just one passage, Frantumix4 crumbles, refines and oxygenates at the end of the cycle any kind of litter (sawdust, straw, chips and mixture), even if it was never milled during the entire cycle. In this way any operation for agronomical use of the manure will be performed easily: the structure of poultry manure will be perfect in terms of grain size, with low moisture content, ready for the conversion into energy or biological stabilisation for the manufacture of fertilizers, as well as bulky materials suitable for the realisation of “the effluents accumulation process on field” (see report of C.R.P.A. - Research Centre of Animal Production - December 2009 concerning relevant tests and experiments).

Manure will be no more a cost but an added value.

- ⌘ After the milling operation the birds place themselves over the whole building area scratching about in a lively way. These are the signs of health and quality proven by less abrasions under the animals' feet.
- ⌘ **The use of this method for the treatment of the litter, improves significantly the well-being of the animals throughout its life cycle.**

OPTIONAL

ONLY FOR MODELS FM4

OPTIONAL ON REQUEST:

- Compacting front roller, to be used only at the beginning of the litter with, on the floor, opened and levelled straw layers, to help the introduction of the straw into the Frantumix FM4 during its first passage. The dust will be partially drained promoting a more salubrious surface, particularly necessary into turkeys farms.
- Sprayer Plus with 2 barrels of 200 Liters each front and rear nozzle holding bars



COMBINED VERSION WITH SPRAYING PLUS

A spraying equipment, with two revolving and adjustable nozzle holding bars, **tamps down the powders** that form during the preparation of the litter and sprays, if necessary, also the coco bricks for an easy absorption that increases the volume of the litter. With the front bar it is possible to **distribute and to mix the additives before the passage of the knives that cut, mix and turn over the straw.**



C.P.R.A (Research Centre on Animal Production - Reggio Emilia, Italy) experiences on the use of additives, such as enzymatic products or bacterial-enzymatic or chemical products, have shown that their action doesn't develop uniformly on all surfaces they are applied on. To carry out their action, the additives should be mixed thoroughly and their solubility applied all over the straw layer. Frantumix4, with the new spraying system (optional upon request), helps a thorough mixing of all additives thanks to the adjustable nozzles that distribute the additives on the entire surface before the passage of the operating knives (milling, mixing and turning over operations).

IT IS STRICTLY FORBIDDEN TO USE THE MACHINES WITHOUT THE SIDE PROTECTIONS.

FRANTUMIX4

Implement for tractors

	Models	Working Width cm.	Total Width cm.	Total Length cm.	Height cm.	Transferable Linkage	3 Points Linkage	Work on Litter cm.	Regulation	Blades n°	PTO (rev/min.)	Power HP	Weight Kg.
RANGE FL4	110 FL4	110	140 182*	105	86	Mechanical	Cat. 1	10-20	Central supporting block with scraping blade	10+10 +4	540	18/26	271
	130 FL4	130	150 192*	105	86	Mechanical	Cat. 1-2	10-20		12+12 +4	540	28/35	300
	170 FL4	170	190 232*	105	86	Mechanical	Cat. 1-2	10-20		16+16 +4	540	35/50	366
RANGE FM4	126 FM4	127	150 190*	121	105	Off-centre on request	Cat. 1-2	10-30	Central supporting block with scraping blade	14+14 +6	540/1000	30/35	475
	170 FM4	168	191 230*	121	105	Off-centre on request	Cat. 1-2	10-30		20+20 +6	540/1000	45/60 DT	580
	210 FM4	209	232 273*	121	105	Off-centre on request	Cat. 2-3	10-30		26+26 +6	540/1000	60/80	682
	Optional: Sprayer with tank 200 liters with nozzleholding bars for the mixage of the additives and the suppression of the powders (production on request. Ask for availability)												30

FRANTUMIX4

Implement for walking tractors

RANGE F2 / FT4	Models	Working Width cm.	Total Width cm.	Total Length cm.	Height cm.	Transferable Linkage	3 Points Linkage	Work on Litter cm.	Regulation	Blades n°	PTO (rev/min.)	Power HP	Weight Kg.
RANGE F2 / FT4	080 F2	81	91 141*	95	65	---	---	10-15	Central supporting block with scraping blade	8+8 +4	540/900	12/14	119 185**
	088 FT4	88	107 151*	100	48	---	---	10-15		8+8 +4	540/900	12/14	146 256**

Please note: At the moment of order ask always for the recommended wheels.

* Machine width with side protections.

** Complete with selfbalancing system and counterweights.

N.B.: the weight of Frantumix FM4 with sprayer Plus is very variable if empty or full.

Specifications, models, characteristics and pictures are indicative only, are not binding and can be changed without warning.

ATTENTION !!

When the barrels are empty, put the tension lever of the pump in neutral position. Do not use the pump without water in the barrel because it will be irreparably damaged, without warranty.

ATTENTION !!

As to avoid problems to the walking tractor's engine, it is obligatory to do a servicing every 8 working hours. Carbogreen refuses all responsibility concerning the walking tractors as they are not his own production.

ATTENTION !!

It is forbidden to use Frantumix4 without the transversal, scraping blade. Modifications with lateral and/or rear supports are forbidden because the regulation through the third lifting point of the tractor does not assure the distance between implements and floor. Should they come in contact with the floor, they could cause sparks with great fire danger for the litter,

ATTENTION !!

Do never tamper the tie rod between the walking tractor and the Frantumix FT4 088. Any tampering can cause abnormal tensions that could break the gear box of the walking tractor and/or the angular transmission of the Frantumix.

From now on Carbogreen refuses all responsibility with regard to this.

The whole series is constructed in accordance with **CE** rules.

FRANTUMIX MOD. 210 FM4
with sprayer "Plus"
PREPARATION OF THE LITTER
WITH COCO FIBER BRICKS

LEVELS PERFECTLY THE SURFACE

Novelty!



Coco fiber bricks
with only 2 passages the whole litter becomes brooding.
"Simply and fast execution"

PATENTED IN ITALY



Perfect palmar with litter Frantumix4

Crumbles, chops, sprays,
blocks the dust in the heart
of the litter avoiding the risk
of aspergillosis



Visit our web site!
www.carbogreen.it

filmed sequences of the
FRANTUMIX4 running!



CarboGreen[®]

CarboGreen di Carboni Renzo

Viale Umberto 1° n. 78 - 42022 BORETTO (RE) - Italy
Tel. 2 linee r.a. 0522 964261 - 965547 - Fax 0522 965642
E-mail: carboni@carbogreen.it - <http://www.carbogreen.it>