



Dear Owner,

Thank you for buying a SOVEMA manufactured product.

Your new machine has been carefully designed and manufactured to give you superior performance and dependable service, if properly operated and maintained.

You will find this machine to be rugged and reliable when matched to the suggested horsepower operating range.

Much time has been invested in providing safety and protection. Please carefully read this manual. It tells you how to safely and easily assemble, operate and maintain your machine.

Be sure that you and any other operator carefully follow the recommended safety practices at all times. Failure to do so could result in personal injury or property damage.

Of course, should you ever have any problems or questions, please contact your local SOVEMA dealer or contact us at the addresses or numbers indicated in this manual.

SOVEMA manufactures a variety of innovative equipment. If you are interested in reviewing our full line, please contact us.

Thanks for your choice.

Pier Silvio Mayer
President



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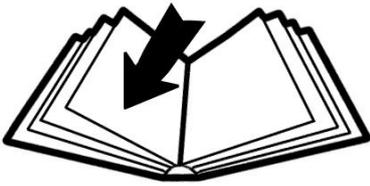
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SYMBOLS

These symbols appear throughout the manual.
Remember their meaning and advice.



CAUTION!
YOUR SAFETY IS IN DANGER!



READ CAREFULLY



USE PROTECTIVE GLOVES



GENERAL INFORMATION

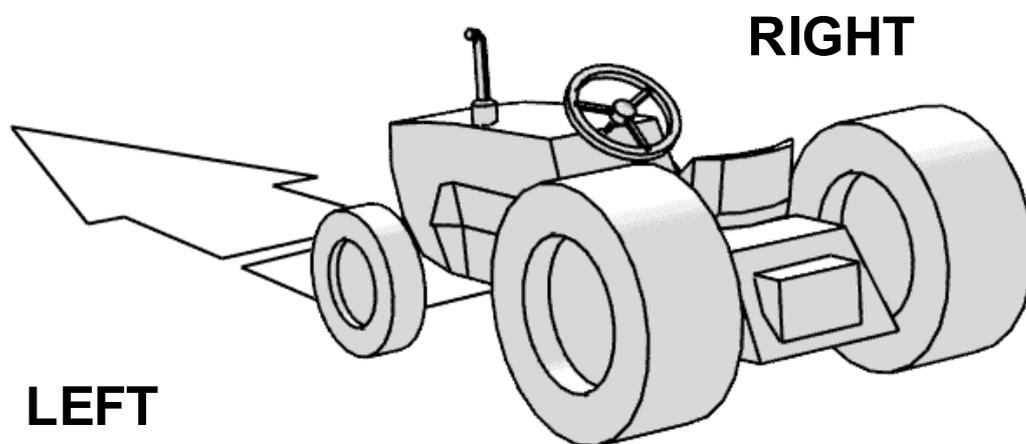


All implements with moving parts are potentially hazardous. The manufacturer has designed the implement to be used with all the safety equipment properly attached. The purpose of this manual is to assist you in safely maintaining and operating the implement.

These instructions have been compiled from our experience.

By following these instructions, you should be able to develop operating procedures suitable to your needs.

Illustrations and data used in this manual may vary slightly in some details. Throughout this manual references are made in left and right directions. These are determined by standing at the rear of the equipment and facing the direction of advancement.



Even if some illustrations in this manual show the machine with safety shields removed for a better view, never operate in these conditions.

BEFORE OPERATING THE IMPLEMENT, ALL SAFETY SHIELDS OR DEVICES MUST BE MOUNTED!

SAFETY DECALS



Safety decals on the implement contain important safety warning messages. To prevent injuries we invite the operator to read them carefully and keep them clean.

Check that all the decals are on the machine. If not, **DO NOT USE** the machine and report to the Dealer immediately to get the decals.

Decals on the machine are as follows:



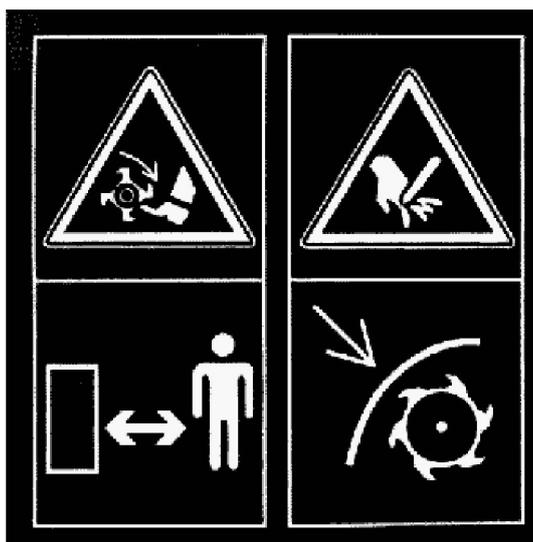
-  **1** Before beginning operations, read carefully the instruction manual.
-  **2** Before maintenance operations, lower the implement to the ground, shut off the engine, disengage the PTO and read the instruction manual.
-  **3** Do not allow riders on the tractor or implement., fatal injuries may occur.
-  **4** Do not stand behind the tractor during operations.



-  **5** Before attaching the implement to the PTO, read the instruction manual carefully.
-  **6** Danger of entanglement to the PTO shaft.
-  **7** **KEEP AWAY** from the PTO shaft in operation: contact can cause death!



8



9

10



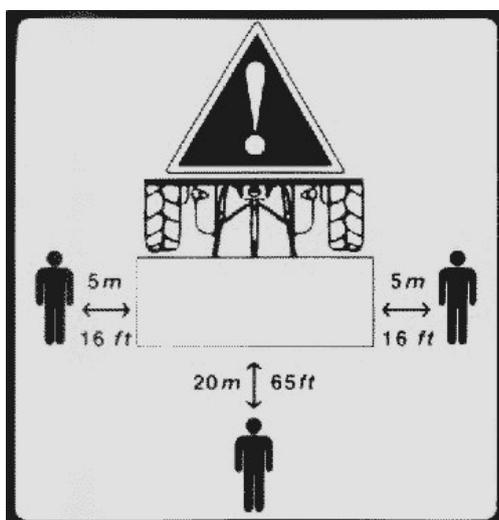
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-  **8** Danger. Hands and feet can be injured by moving knives. Keep away from the implement.
-  **9** Danger. Your feet can be injured. Keep away from the implement.
-  **10** Danger. Your hands can be injured. Do not remove safety protection and keep away from moving parts..
-  **11** Danger. Your hands can be injured. Do not remove the cover and keep away from moving parts.

540 rpm

1000 rpm

-  **12** The machine is designed to be used on tractors with 540 or 1000 RPM PTO .



-  **13** Caution! During working operations all by-standers must stay beyond the shown distances from the implement.



SAFETY INSTRUCTIONS



Before using the implement you must be sure to know the main safety precautions; in fact many accidents are caused by not observing these simple rules.

Sovema S.r.l. declines to the full extent allowed by the applicable laws all liability and responsibility for any damages of any kind resulting from the breach of the rules and guidelines expressed in this manual



PRE-OPERATIONAL AND OPERATIONAL RULES.

-  • Make sure that no one operates the machine unless they have first thoroughly read and studied this instruction manual and understood all the safety precautions.
-  • Keep all guards, shields and safety decals in place and in proper working order before operating the machine.
-  • Only operate with a tractor equipped with an approved Roll Over Protective System (ROPS) and always wear your seat-belt.
-  • Operate only in daylight or good artificial light.
-  • Only trained personnel shall operate the tractor and the implement.
-  • Personal protection equipment, including safety shoes, safety glasses, hard hat and gloves are recommended during the different operations. Do not allow long hair, loose fitting clothing or jewellery to be around moving parts.
-  • **Do not leave the seat until the engine is completely turned off, brakes locked and ignition key removed.**
-  • Do not allow riders on the machine or tractor at any time..
-  • Before starting operations, make sure that the tractor's PTO is set to match the PTO requirements of the implement. The speed is indicated in this manual and on the implement.
-  • Always use the PTO shaft supplied by the manufacturer



- ⚠ • Make sure the PTO shaft is firmly attached to the tractor and the implement and that the locking pins have snapped shut.
- ⚠ • To connect and disconnect the PTO shaft, please refer to the manufacturer's instruction manual and to your tractor's instruction manual.
- ⚠ • Connection and disconnection of the PTO shaft must be performed with the tractor's engine turned off.
- ⚠ • Keep hands, feet, hair and clothing away from moving parts
- ⚠ • To prevent injury by thrown objects DO NOT operate unless all personnel, livestock and pets are 20 m (65 ft) away.
- ⚠ • The rotating parts of the machine have been designed and tested for rugged use. However they can fail upon impact with heavy solid objects. Such impact can cause fragments to be thrown outward at very high speed. To reduce the possibility of serious injury, or even death, never allow the rotating parts to contact such obstacles.
- ⚠ • Stop the machine and tractor immediately upon hitting an obstruction. Turn off the engine, remove the key, inspect and repair any damage before resuming operation.
- ⚠ • No repairs or adjustments should be attempted while the machine is attached to a tractor that is turned on.
- ⚠ • Disengage tractor PTO and place transmission into neutral before attempting to start engine.

TRANSPORT SAFETY

- ⚠ • Plan your route to avoid heavy traffic.
- ⚠ • For public roads, comply with state and local safety and movement rules.
- ⚠ • Be sure that the implement is in the raised position for transport.
- ⚠ • When you must drive, do not drink.
- ⚠ • Pay attention to traffic when operating near or crossing roadways.
- ⚠ • Reduce speed when transporting mounted implement to avoid bouncing and loss of steering control.

MAINTENANCE SAFETY

- ⚠ • Good maintenance is your responsibility. Poor maintenance is an invitation to trouble.
- ⚠ • **Please follow these common practices:**
 - keep service area clean;
 - make sure the area is well lit;
 - make sure the tools and the electric appliances are properly grounded;
 - make sure the service area is properly ventilated.



-
- ⚠ • Before performing maintenance on this machine, drive to a level area, turn off the engine, disengage the PTO, lower the machine, set the brakes and remove the ignition key .
 - ⚠ • Keep all persons away from the service area while performing maintenance.
 - ⚠ • **Always** use personal protection devices.
 - ⚠ • Periodically tighten all bolts, nuts and screws.
 - ⚠ • When replacing a mechanical part, always use original spare parts in order not to compromise the machine and your own safety. The implement manufacturers assumes no liability if replacement parts other than originals are used.
 - ⚠ • After servicing, be sure that all safety shields are re-installed properly.
 - ⚠ • Make sure that all safety decals are installed, clean and in good condition.
 - ⚠ • If the machine is modified from the original design, no responsibility for the manufacturer can be claimed.



MAIN CHECKS

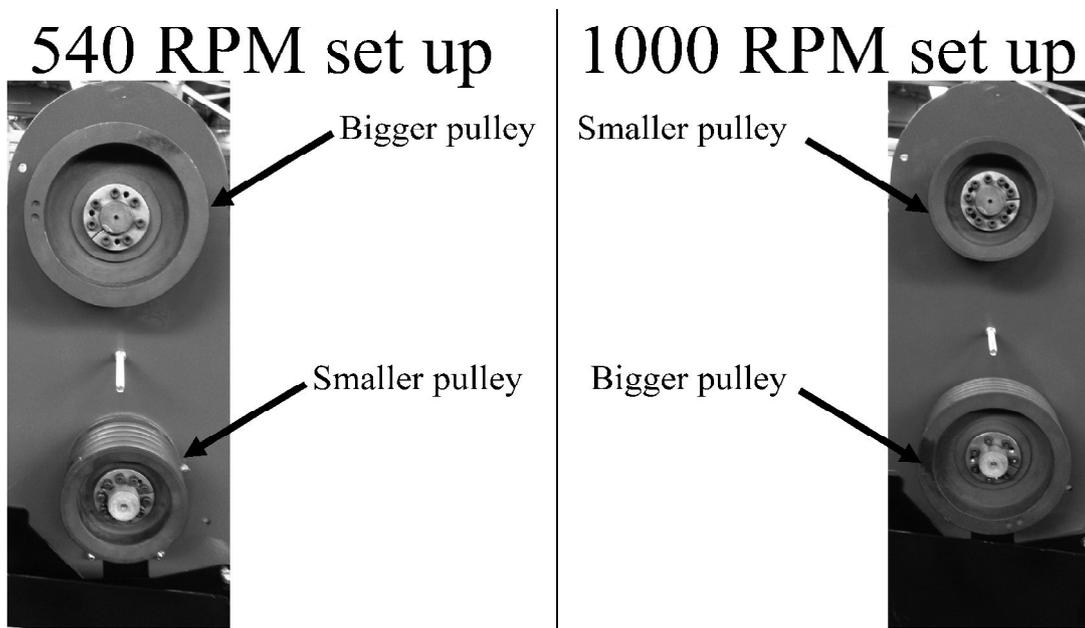


Before connecting the machine to the tractor, read the following instructions:

- Make sure the weight and power of the tractor is correct for the machine you want to connect. If you have any doubt, refer to the technical specifications.



- Ensure that all safety decals are properly installed and clean.
- Check oil in the gearbox. With low oil, gears get damaged
- Be sure that all safety shielding is properly installed and in good condition.
- Be sure that the machine has the same RPM set up of the PTO of the tractor (for the machine, see following)





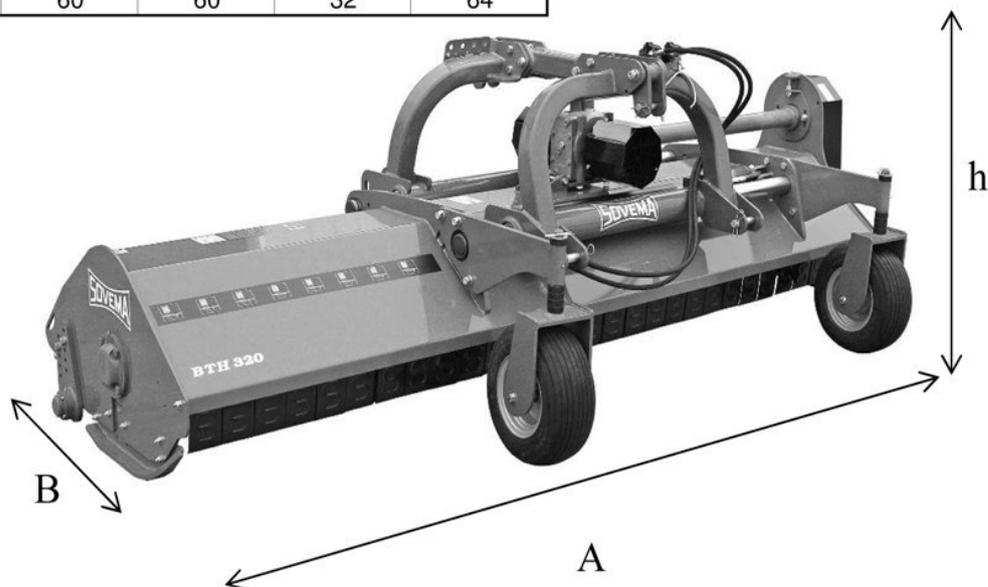
TECHNICAL SPECIFICATIONS



The implement described in this manual is a flail mower from the **BTH** series.

MODEL	Work width		Side shift (from centre)		HP	KW	PTO RPM	Rotor RPM	A		B		h		Weight	
	cm	inch	right side	left side					cm	inch	cm	inch	cm	inch	Kg	Lbs
BTH 250	256	100	cm 128	cm 128	70-110	51-81	540 / 1000	1845 / 1950	278	109	114	45	102	40	880	1936
			inch 50	inch 50												
BTH 290	298	117	cm 71	cm 185	80-110	59-81	540 / 1000	1845 / 1950	320	126	114	45	102	40	920	2024
			inch 28	inch 72												
BTH 320	318	125	cm 145	cm 153	90-110	66-81	540 / 1000	1845 / 1950	340	134	114	45	102	40	960	2112
			inch 57	inch 60												
			cm 88	cm 210												
			inch 35	inch 82												
			cm 156	cm 162												
			inch 61	inch 64												
			cm 99	cm 219												
			inch 39	inch 86												

					
BTH 250	104	52	52	24	48
BTH 290	120	60	60	28	56
BTH 320	120	60	60	32	64



NOISE LEVEL WHEN IDLE.



L_{pa} (A) 80 dB MAX



HITCHING THE MACHINE



The machines described in this manual do apply to any kind of tractor provided of universal three-point hitch.

The characteristics (length, diameter of the holes for the lifting pins) of the tractor's lifting arms depend on the type of tractor, therefore it is necessary to prepare the machine in order to properly hitch the machine.

Before attaching the machine to the tractor you must make sure that the engine is turned off, brakes are locked and the ignition key is removed.

This operation must be performed on a flat area as it is very dangerous.

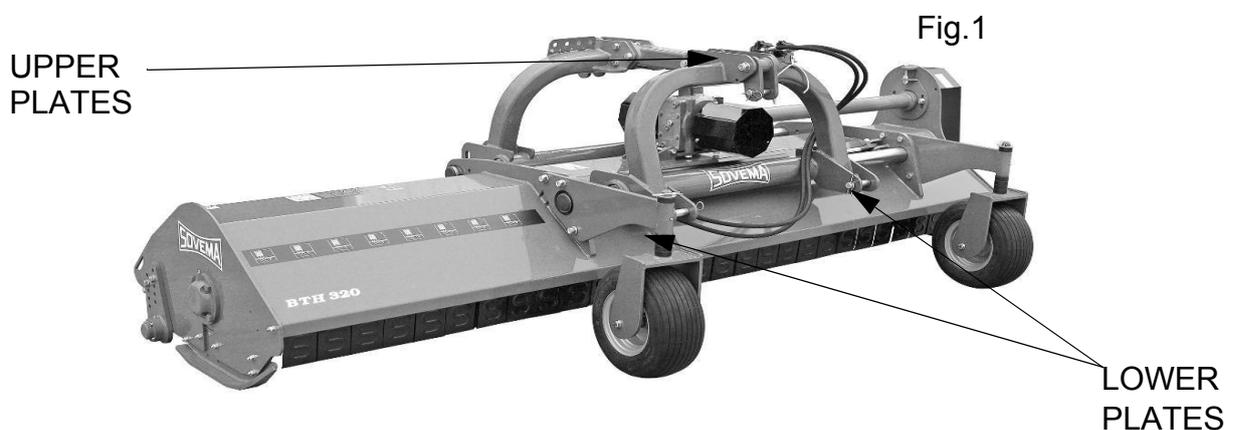


Do not allow anyone between tractor and implement when the engine is running.

Follow these instructions:



- Connect the two drawbar of the tractor to the lower plates of the mower by using two pins and two hair pins to lock the pins in place (fig. 1).



- Connect the 3rd point of the tractor to the high plates of the mower by using a pin and an hair pin (fig. 1).
- Lift the mower and fix the stand support high in its socket with the supplied pin.
- Lower the mower and adjust it so that it is parallel to the ground. Do this by adjusting the 3rd point drawbar (fig. 2). This will improve the life-span of the machine and the PTO.

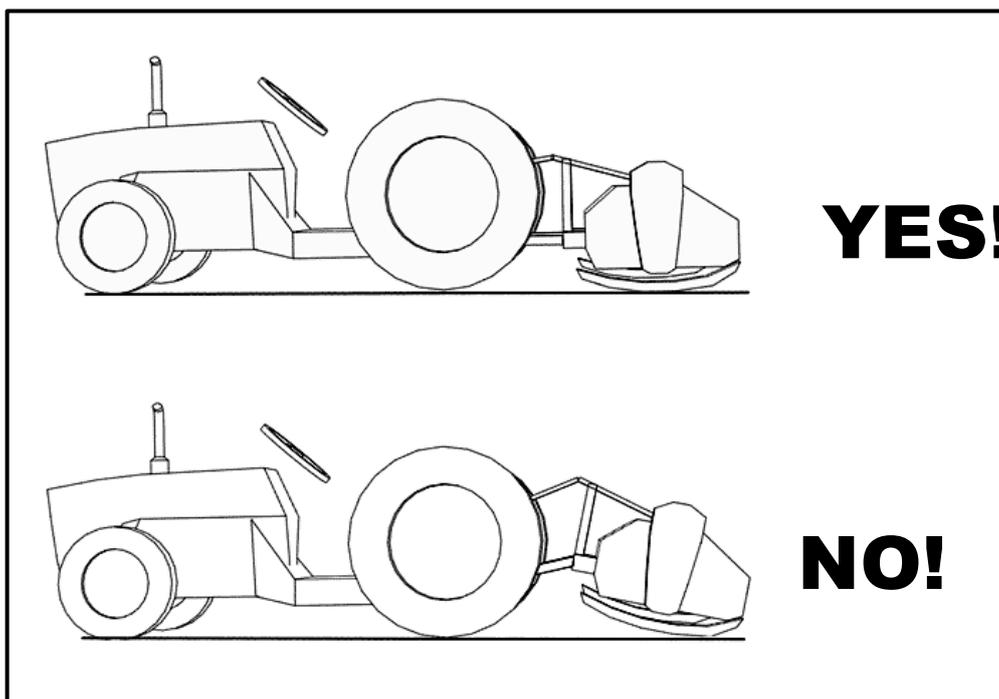


Fig.2

- Connect the PTO shaft and make sure it is correctly connected to the tractor and the machine.

NOTE ON THE PTO SHAFT.



Always refer to the manufacturer's instruction manual. Read it carefully.

CUTTING HEIGHT REGULATION



Rear roller adjustment

Rear roller adjustment is carried out by regulating the two roller support plates as follows (fig. 1):

- Unscrew and remove screws “a” from the roller’s plates
- Adjust the wheel as preferred.
- Place screws “a” back.

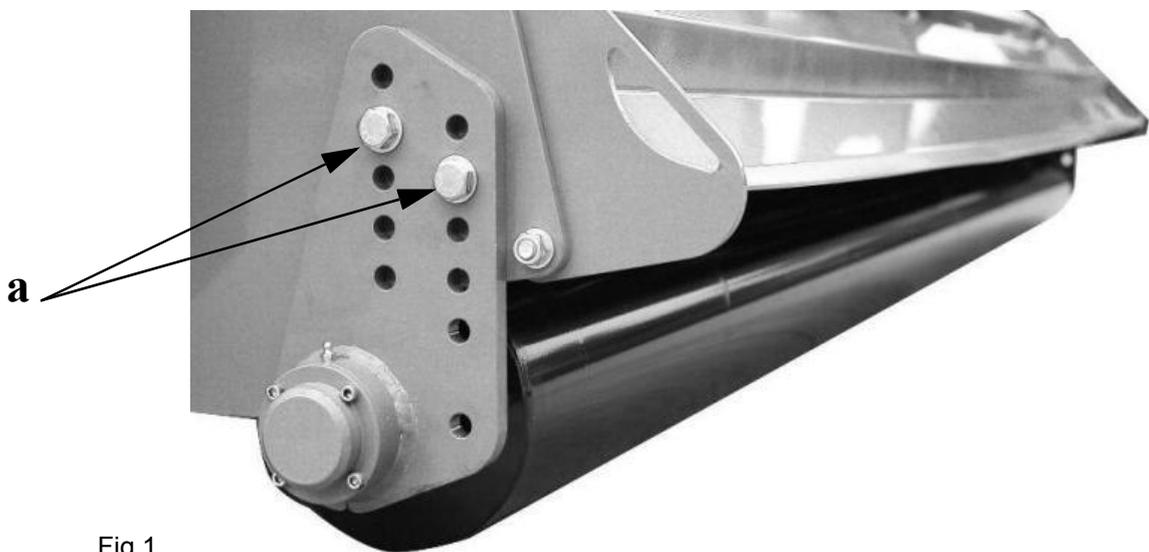


Fig.1

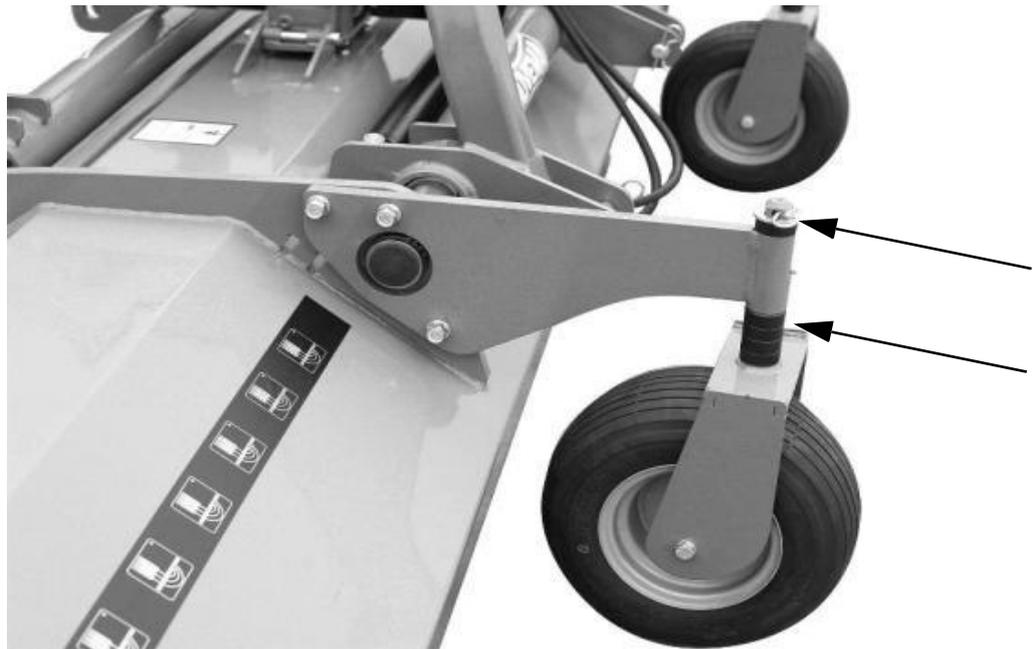


In order to get an even cut, it is suggested to adjust the two plates at the same height.

Wheel-equipped machines

If your mower is equipped with two front wheels, the cutting height adjustment is carried out by adjusting the spacers of each wheel. (fig. 2)

- remove the split pin.
- Adjust the skid as needed.
- Insert again the split pin.



For each wheel, please adjust the two support at the same height.



OPERATING THE IMPLEMENT

After having completed all safety checks and made sure the mower is parallel to the ground, proceed as follows::

- Raise the machine off the ground in order to let the knives start moving without touching ground to avoid damages.
- Maintaining the machine raised, engage the tractor PTO at suggested engine RPM.
- Start moving the tractor forward and then gradually lower the machine

CUTTING TIPS.



Proper ground speed for cutting will depend upon the height, type and density of the grass to be cut. However we suggest not to exceed 7 Kph (4.3 Mph).

Lower ground speed allows tall and dense grass cutting. Taking a partial cut and/or reversing the direction of travel may also produce a cleaner cut. Remember, sharp knives produce cleaner cuts and require less power.



Important: Very low cutting heights should be avoided. Damaging shock loads occur when the knives strike the ground repeatedly. This can cause damage to the machine.



During operation, always raise the machine off the ground before doing a curve to avoid damage to the roller supports and to the lateral sides where the skids are positioned.



The machine must be used only if equipped with all its components as supplied by the Manufacturer (safety devices included). The implement must not operate without the rear shield or modified as to leave the rear shield open. No other component can be modified.



TROUBLESHOOTING



During work several problems can happen.

UNUSUAL NOISES.

During operations, if the implement produces loud, unusual noises, the operator **must immediately stop** it and follow these instructions::

- **Make sure there are no broken mechanical parts.**
- **Verify that the gearbox contains the correct amount of oil.**

If the oil level is too low (please see the chapter on maintenance), the gears of the conic couple are not adequately lubricated and will **overheat** the remaining oil if operations continue. This will rapidly **produce damages to the conic couple and its bearings.**

- **Check knives conditions.**

If some of the knives are broken, bent or present excessive wear, the balance of the rotor will be compromised. During operations, the turning movement of the rotor will produce vibrations that will inevitably damage and break support bearings and frame welds. To avoid damages, please replace all the knives at the same time with new, original knives supplied by the manufacturer.

- **Check rotor support bearings.**

As a consequence of reduced lubrication, one of the bearings supporting the rotor may have broken down. The rotor starts to oscillate producing excessive vibrations against the frame, producing damages to the welded parts of the frame.

Another cause for damaged support bearings can be the impact with heavy, fixed objects on the ground such as rocks.

CUTTING ANOMALIES.

If after the operations the mower failed to obtain a clean, even cut, the operator must follow these instructions:

- **Check knives conditions.**

The knives can be worn and less effective. Please replace them.

- **Check if the cutting height has been properly set up.**

The regulation of the implement may be uneven. Please check that both skids are at the same height.

- **Check belt conditions after removing the cover.**

It is possible that the belts are not tight enough, thus failing to transmit enough power to the knives. The sliding can be produced by lack of tightness or by belt wear.

- If the belts look even marginally damaged, the operator must replace them immediately
- If the belts are loose, the operator must tighten them

A less-than-adequate result can be produced by an incorrect working speed. The advancement speed must be regulated in connection to the engine's RPM and consequently to the rotor's RPM. Advancing too quickly doesn't allow the knives to cut thoroughly.

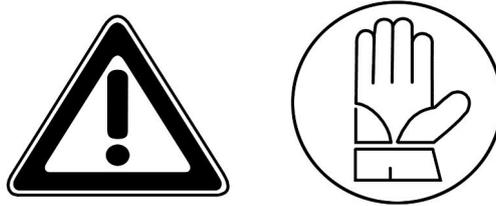


Before checking the machine to find the possible cause of malfunctioning, make sure the tractor's PTO is disconnected, the engine is turned off, brakes are engaged, the ignition key is off the command board and the machine is completely lowered to the ground..

DISCONNECTING THE MACHINE



The disconnection of the machine from the tractor must be carried out on a flat surface. It is a dangerous operation. Please read the following instruction carefully.



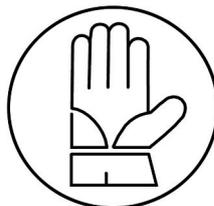
- While remaining in the tractor seat, put the tractor PTO in neutral.
- When the rotor has completely stopped, turn off the engine and set the parking brakes.
- Descend from the tractor, remove the pin from the top plates of the mower after removing the safety key from the pin. Then proceed to remove the third point.
- Remove the pin from the lower plates of the mower after removing the safety key from the pin. Then disconnect the lifting arms from the machine.
- Remove the PTO Shaft.



Always check the tractor's PTO is in neutral before disconnecting the PTO shaft!



STORAGE



The mower represents an investment for the operator. If left unused for a long time, we suggest to follow these simple rules:

- Wash and dry the machine
- Check all moving parts. In case of excessive wear replace the parts or contact your local dealer.
- Check bolts and nuts for proper tightness.
- Lubricate all the active parts like bearings, all rotor supports and other pivot or wear points that may not have a fitting.
- Lubricate lateral rear roller supports.
- Lubricate all not-painted parts.
- Store the mower in a clean and dry place under roof.



Spent oil must be properly disposed and must not be dispersed in the environment. According to the regulations in force, oil is designed as a dangerous waste and as such it must be consigned to appropriate facilities.



FIRST USE OR USE AFTER A LONG PERIOD OF INACTIVITY.

Before using the implement for the first time or after a long period of inactivity, follow these steps:

- Make sure the machine is not damaged;
- Verify all mechanical parts They must be in good state and they must not present signs of rust;
- Verify wear of the tools;
- Lubricate all moving parts;
- Verify that the implement does not present loss of oil from couplings or tubes;
- Verify that all the safety devices are correctly positioned and assembled.

SCRAPING.

In case of scraping, the machine must be disposed of properly, in suitable scrap-yards, respecting the regulations in force.

Before proceeding, it is necessary to remove all the plastic or rubber parts and all the electric and electronic devices, please recover all used oils and dispose of them in the proper collecting centres.



Spent oil must be properly disposed and must not be dispersed in the environment. According to the regulations in force, oil is designed as a dangerous waste and as such it must be consigned to appropriate facilities.

Parts made exclusively of plastics, aluminium or steel can be recycled if collected by the appropriate facilities.

MAINTENANCE



The efficiency and lifetime of this mower strongly depend on the observance of its maintenance schedule. The schedule reported below is subject to change since it refers to a normal usage scenario and does not take into consideration heavier working conditions which require a more frequent maintenance.



Disengage the PTO shaft before proceeding with maintenance.



EVERY 10 WORKING HOURS

- Check for loose bolts that fix the knives to the rotor. Tighten as needed.
- Grease the PTO shaft components..
- Clean the end of PTO shaft with non toxic / non inflammable detergent
- Make sure that PTO shaft protection line shields are in place and in good condition
- Grease lateral supports of the rotor. Before greasing, clean the grease nipple correctly for better lubrication. The lateral support of the right is at sight, the left one is covered by the cover itself. To be able to grease this last one, you will find a hole in the back part of the cover. Use lithium type grease NLGI2.
- Clean the mower from residues.

EVERY 20 WORKING HOURS.

- Check belt tensioning by measuring belt tightness. Correct tightness results when belt deflection along the front side of the belt is 1 cm, as a result of the pressure applied with the index finger to the centre of the belt length (see fig. 1).

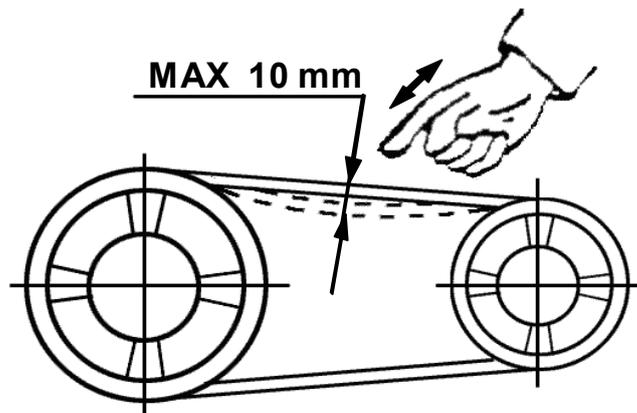


FIG. 1

In case a belt adjustment is needed, proceed as follows (see fig. 2):

- Remove the belt cover
- Loose the two nuts “d”.
- Rotate “a” nut counter-clockwise while holding nut “c” still.
- Keep nut “b” still, rotate the tensioning screw “c” clockwise. As a result, the transmission tube will rise along with the pulley.
- Make sure that the maximum flexibility of each belt is not over 1 cm when tested with one’s finger.
- Keep screw “c” still and rotate nut “a” until it is blocked.
- Tighten nut “d”.

If the belts show signs of deterioration (even of small entity), or if the belt tension adjustment is not possible because of having reached the maximum limit of tensioning, replace the belts. Before the replacement clean both pulleys from rubber residues.

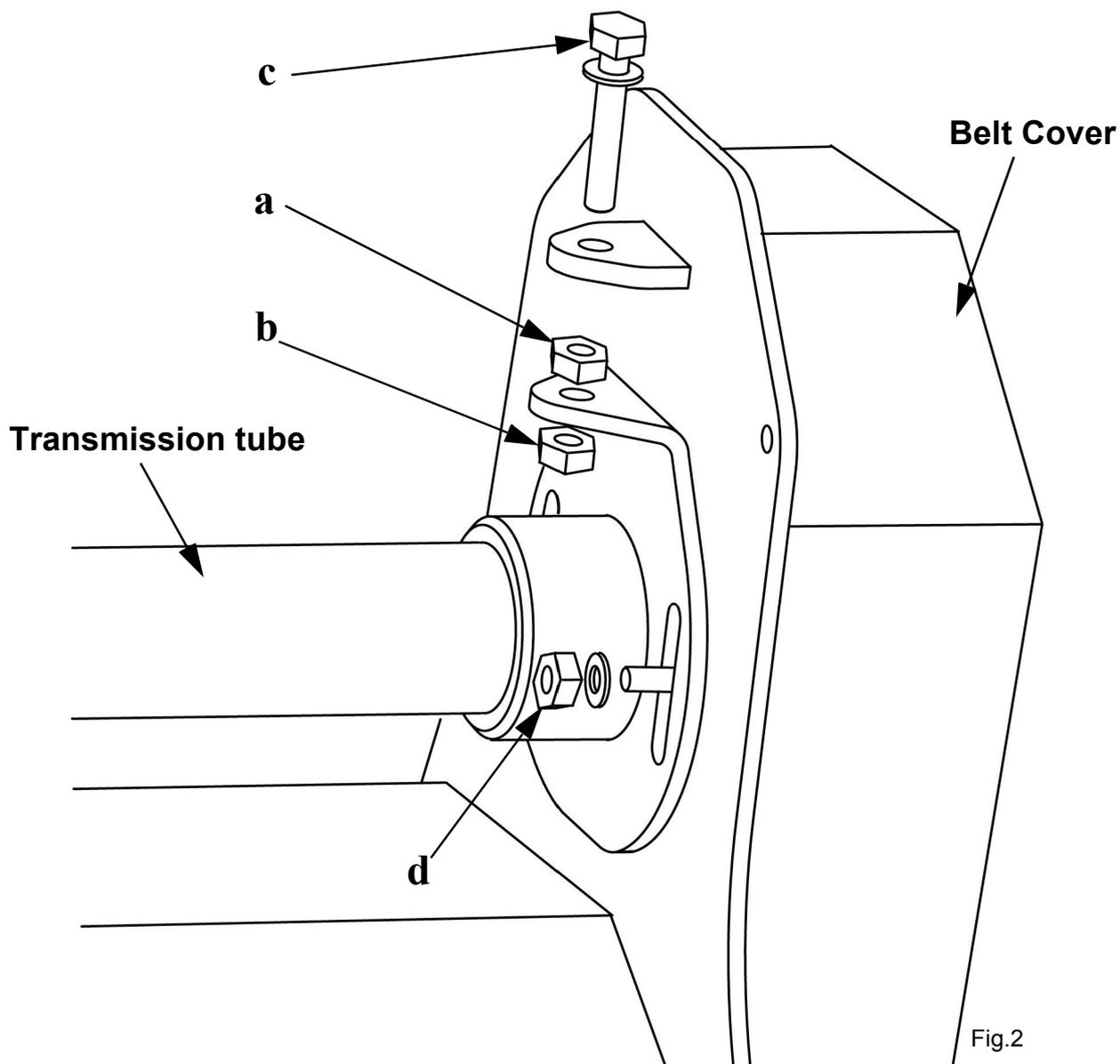


Fig.2



A high number of worn belts in a short time is not normal. Please check that the rotor rotates freely without obstacles blocking its movement.

- Make sure the knives are still sharp and that they do not show signs of breakages or excessive wear. In case their replacement is needed, always use original knives as supplied by the manufacturer.
- Verify the oil level in the gearbox through the oil level indicator placed on the side of the gearbox (see Fig.3). In case a refill is needed, unplug the oil filler cap from the top of the gearbox and proceed with the filling until the oil is visible again through the indicator

EVERY 50 WORKING HOUR.

- Proceed greasing rear roller's lateral supports. Before greasing, clean the grease nipple correctly to avoid the entrance of dirt, grass and mud. Use lithium type grease NLGI2

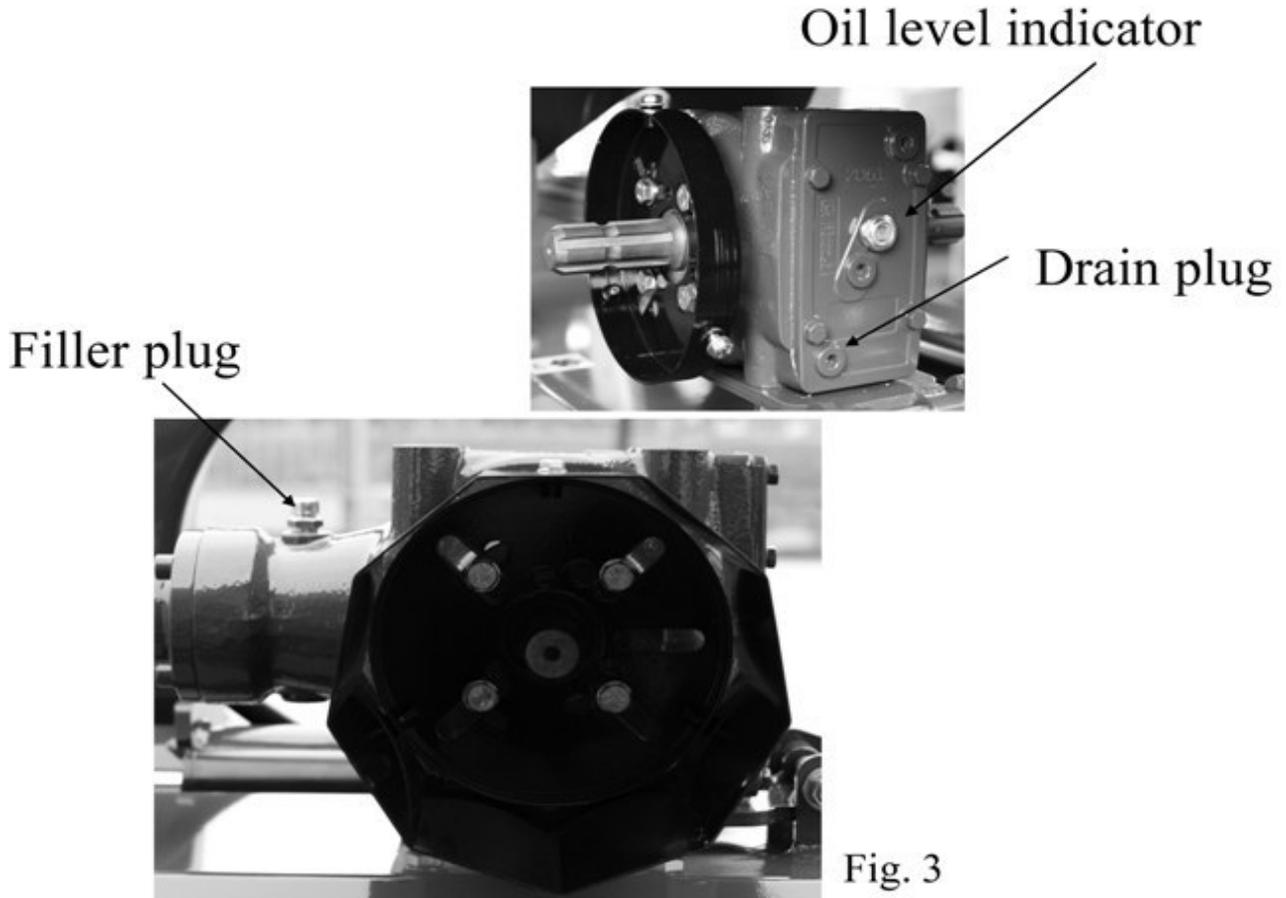


Fig. 3

- For versions equipped with rear wheels, lubricate the wheel's articulated supports. Before lubricating, clean the grease nipple correctly to avoid the entrance of dirt, grass and mud. Use lithium type grease NLGI2



FIRST 100 WORKING HOURS.

- When the machine has done its first 100 hours, change the oil from the gearbox. To proceed, remove the plug located under the box, drain all the oil through the discharging hole, then fill in with new oil through the filler hole. This substitution is necessary because the gears are new and so are subject to quicker worn. Use oil SAE 80 W 90 API GL4.

EVERY 300 WORKING HOURS

- Completely change the oil in the gearbox proceeding as described above. Always use oil SAE 80 W 90 API GL4

TOXICOLOGICAL INFORMATION ABOUT LUBRICANTS.



	TYPE OF DANGER	PROTECTIVE EQUIPMENT	FIRST CARE
SKIN	Possible rash after prolonged exposure	Safety gloves or lotion	Wash thoroughly with soap and water
EYES	Possible irritation on contact	Protective glasses	Rinse with running water
INHALATION	Possible irritation after prolonged exposure	Maintain an oil mist level of 5mg/m ³ between TLV-TWA limits	Expose to fresh air and call medical assistance immediately
INGESTION	Not considered		DO NOT provoke vomiting; call medical assistance immediately



LIMITED WARRANTY POLICY



SOVEMA S.r.l., Manufacturer of quality machinery, guarantees new Sovema machinery from the time of delivery to the original purchaser to be free from defects in material and workmanship if properly set up and operated in accordance with recommendations set forth in SOVEMA's operator manual. SOVEMA's liability for any defect of accepted goods shall be limited to replacing them, or as SOVEMA shall elect.

The original purchaser will qualify for the SOVEMA warranty only after they have completed the warranty card in full and forwarded it to SOVEMA S.r.l. Italy or any SOVEMA branch.

SOVEMA's obligation shall terminate 12 (twelve) months after the date of purchase of the product by the original purchaser. This warranty cannot be assigned or transferred to anyone unless SOVEMA's consent in writing has first been obtained. All warranty claims must be forwarded to SOVEMA S.r.l. Italy or a SOVEMA branch within 8 (eight) days after occurrence.

The original purchaser will be responsible for and bear costs of:

- A) Normal maintenance such as greasing, maintenance of oil levels, minor adjustments, etc.
- B) Transportation of any kind of, any SOVEMA product to and from the place where warranty work is performed.

This warranty shall not apply to any machine which has been repaired or altered in any way outside the SOVEMA factory which affects its stability or reliability, nor which has been subject to misuse, negligence or accident, nor to any machine that has not been operated in accordance with SOVEMA's printed instructions, or operated beyond the company recommended capacity as per machine.

This warranty shall not be applicable to items which are subject to the warranties of their respective manufacturers. Such items would include but would not be limited to clutches, universal joints, knives, hydraulic components, bearings, tires, belts and other trade accessories.

This warranty shall not be applicable to items defined as normal wearing items. Such items would include but would not be limited to belts, discs, knives, tines stone guards, tires, slip clutches, pitman shaft, swath sticks, blades or tine holders.

The judgement of SOVEMA S.r.l. in all cases of claims under this warranty shall be final and conclusive and the original purchaser agrees to accept its decisions about all questions as to defects and/or to the exchange of any part or parts.

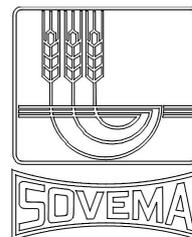
No Agent, Employee or Representative of SOVEMA has any authority to bind SOVEMA to any affirmation, representation or warranty, concerning its machinery excepts as specifically set forth.

SOVEMA shall not be liable for special or consequential damages of any kind caused by any SOVEMA product.



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WARRANTY REGISTRATION

This warranty will become valid only if this form is completed and signed by both the Purchaser and the Dealer and is returned **within 8 days of purchase date!**
IF NOT WARRANTY IS INVALID.

FILL OUT

- ❖ **TYPE OF IMPLEMENT** : _____
- ❖ **SERIAL NUMBER** : _____
- ❖ **DATE OF PURCHASE** : _____

DEALER: I HEREBY CERTIFY THAT:

- The machine has been correctly assembled in accordance with the manufacturers instructions.
- All nuts and bolts, oil level and grease have been checked.
- All safety guards and warning stickers have been placed on machine.
- PTO has been matched to tractor and greased.
- All other pre-delivery checks have been completed as per operators manual.
- The purchaser was given operators manual and instructed in safe and correct usage of machine and on limitation of warranty.
- The machine was tested and operates correctly.

PURCHASER: I HEREBY ACCEPT:

- That the machine is correctly assembled.
- Receipt of the operators manual which I have read and have clearly understood.
- To have a clear understanding of the warranty limitations.
- To have a clear understanding of the correct and safe operation of the machine.
- That the machine need regular maintenance as instructions in operators manual.
- To have clear understanding on the capacity of this machine and made aware of its limitations.

DEALER	(Address)	CUSTOMER	(Address)
	_____		_____
	_____		_____
Date: _____	Signature: _____	Date: _____	Signature: _____

DELIVER TO SOVEMA S.R.L.





Sovema S.r.l.

Via Olmo 6/10
41013 Gaggio In Piano (MO)
ITALY
Tel: 0039 (0)59 93 85 85
Fax: 0039 (0)59 93 85 12
e-mail: sovema@sovema.com
www.sovema.com



WARRANTY REGISTRATION

This warranty will become valid only if this form is completed and signed by both the Purchaser and the Dealer and is returned **within 8 days of purchase date!**
IF NOT WARRANTY IS INVALID.

FILL OUT

- ❖ **TYPE OF IMPLEMENT** : _____
- ❖ **SERIAL NUMBER** : _____
- ❖ **DATE OF PURCHASE** : _____

DEALER: I HEREBY CERTIFY THAT:

PURCHASER: I HEREBY ACCEPT:

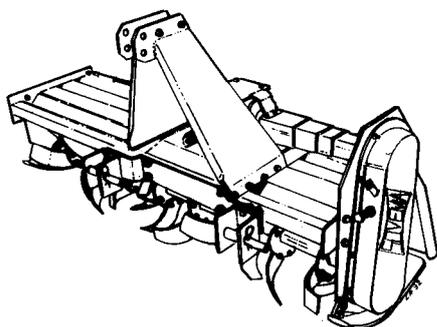
- The machine has been correctly assembled in accordance with the manufacturers instructions.
- All nuts and bolts, oil level and grease have been checked.
- All safety guards and warning stickers have been placed on machine.
- PTO has been matched to tractor and greased.
- All other pre-delivery checks have been completed as per operators manual.
- The purchaser was given operators manual and instructed in safe and correct usage of machine and on limitation of warranty.
- The machine was tested and operates correctly.

- That the machine is correctly assembled.
- Receipt of the operators manual which I have read and have clearly understood.
- To have a clear understanding of the warranty limitations.
- To have a clear understanding of the correct and safe operation of the machine.
- That the machine need regular maintenance as instructions in operators manual.
- To have clear understanding on the capacity of this machine and made aware of its limitations.

DEALER	(Address)	CUSTOMER	(Address)
	_____		_____
	_____		_____
	Date: _____ Signature: _____		Date: _____ Signature: _____

CUSTOMER'S COPY

SOVEMA PRODUCT LINE

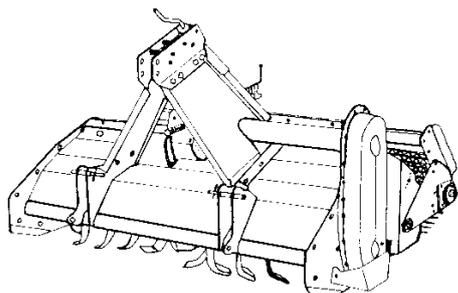
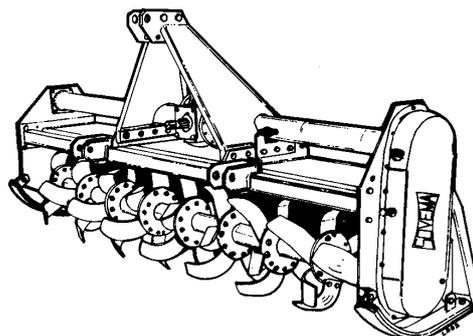


SIDE SHIFT ROTARY TILLERS

- 15 different models
- for tractors from 12 to 70 HP
- working width from 80 to 200 cm.

FIXED ROTARY TILLERS

- More than 45 different models
- for tractors from 15 to 130 HP
- working width from 80 to 300 cm.

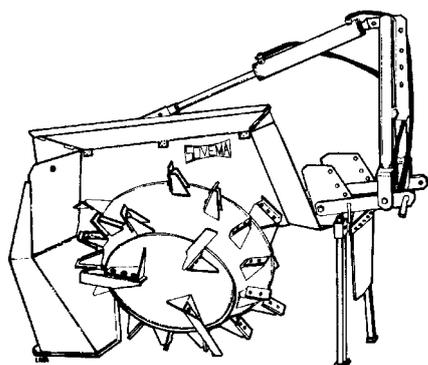
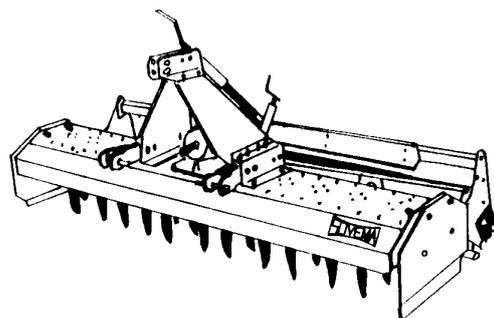


STONE BURIERS

- 6 different models
- for tractors from 35 to 90 HP
- working width from 100 to 200 cm.

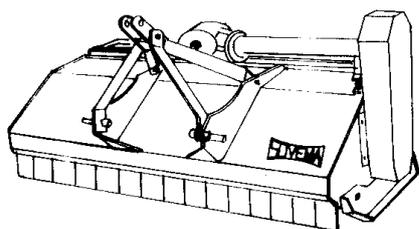
ROTARY HARROWS

- 13 different models
- for tractors from 25 to 150 HP
- working width from 110 to 500 cm.



ROTARY DITCHERS

- 13 different models
- for tractors from 40 to 100 HP
- working width from 45 to 120 cm.

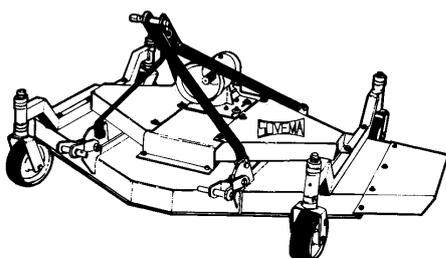
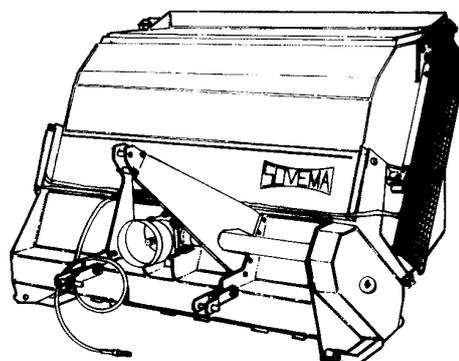


FLAIL MOWERS - SHREDDERS

- more than 50 different models
- for tractors from 15 to 100 HP
- working width from 100 to 290 cm.

FLAIL MOWERS - COLLECTORS

- 6 different models
- for tractors from 30 to 60 HP
- working width from 120 to 180 cm.
- Available with low or high discharge

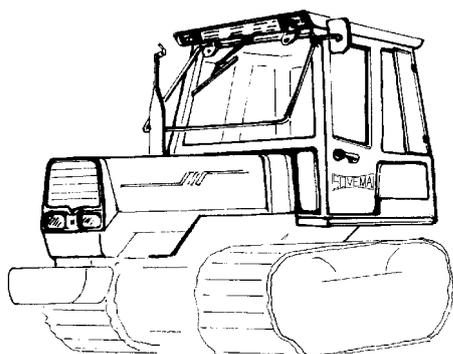
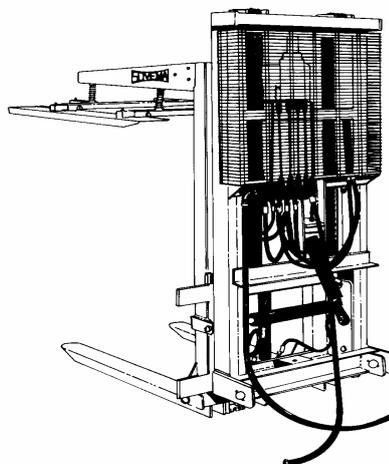


FINISHING MOWERS

- 14 different models
- for tractors from 15 to 70 HP
- working width from 100 to 300 cm.

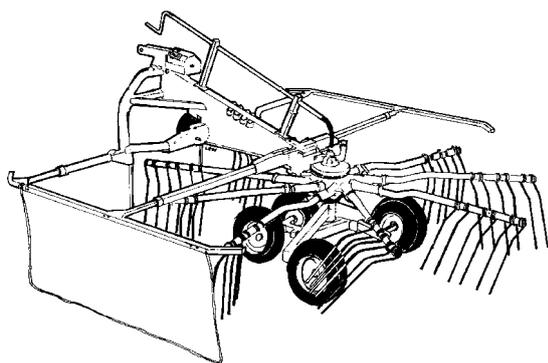
HYDRAULIC FORKLIFTS

- 11 different models
- for tractors from 60 HP
- lifting capacity from 1.300 to 2.000 Kg.



CABS FOR TRACTORS

- wide selection of models
- available for tractors and crawlers
- all models available with heating and/or air conditioning

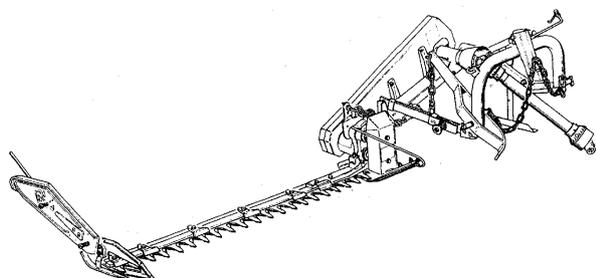
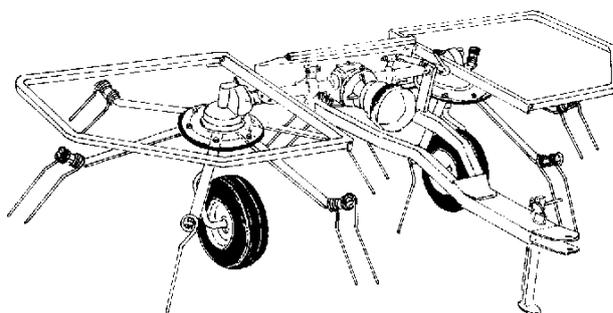


ROTARY RAKES

- 3 different models
- for tractors from 30 to 50 HP
- working width from 340 to 450 cm.

HAY TEDDERS

- 6 different models
- for tractors from 10 to 40 HP
- working width from 250 to 750 cm.

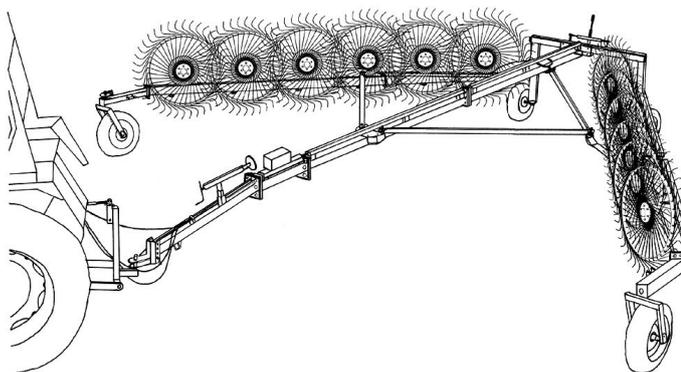


SICKLE BAR MOWERS

- 2 different models
- for tractors from 15 to 30 HP

V-RAKES

- 12 different models
- for tractors from 30 to 80 HP
- working width from 5.30 to 11.35 m.





SOVEMA S.R.L.

VIA OLMO, 6-8-10

41013 GAGGIO DI PIANO

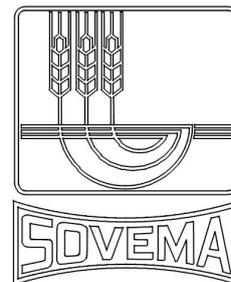
(MODENA) - ITALY

TEL : 059-938585

FAX : 059-938512

E-MAIL : sovema@sovema.com

WEB site : <http://www.sovema.com>



DECLARATION OF COMPLIANCE CE

The undersigned company,

Sovema S.r.l., Via Olmo 6, 41013 Gaggio di Piano (MO) Italia

Hereby declares the machine

Model :

Serial Nr : Year :

Conforms to all Essential Safety Qualifications and Protective Health measures as per CE Directive 2006/42/CE and subsequent modifications and integrations.

For verification of the compliance of the above mentioned directives, the following have been consulted:

Matched Rules EN :

UNI EN 745 2002 + A1 2009

UNI EN 292-1 1991

UNI EN 292-2 1992

EN ISO 4254-10 : 2009

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Silvio Mayer
Managing Director
Sovema S.r.l.

Gaggio di Piano,