

INTRODUCTION

Guide to the consultation

Congratulations on your purchase of a MOLON machine. This machine has been developed by engineers with years of experience on the field and it is built to the highest MOLON quality standards. This manual will help you to know better and to appreciate the features of your machine and it is considered integral part of the machine itself.

This machine can be relied on to last a long time without inconveniences and accidents if used in the correct way: for this reason, it is necessary to read carefully these pages before setting up and using the machine.

The manual, or a copy of it, must always be on the machine to be consulted by the user.



Pay attention to this symbol; it indicates the most dangerous operations and situations.



This symbol points out a note or a very important warning.

Machine identification

The machine is identified by the data which are indicated in the label.

The label is stuck on the frame and it is well visible (fig. 1); it carries the following data:

Model

Serial No

Year

Weight

R.p.m. max./1'

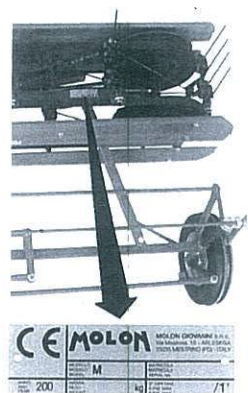


Fig. 1

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MACHINE EMPLOYMENT

The machine is a hay-rake tedder. Use it only and exclusively for raking and tedding hay and cut grass.

The manufacturer declines any responsibility for a different use from the described one.

Familiarize yourself with the operating controls and the correct use of the machine.


 Never permit children or inexperienced to operate your machine.

 Avoid working whilst people, especially children and pets, are nearby. Keep in mind that the operator is responsible for accidents to people and to their property.

The user must know the characteristics and the safety procedures of the machine.

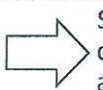
The accident prevention rules and any other requirement of safety and of occupational medicine must always be observed.

The manufacturer declines any responsibility for possible damages deriving from any arbitrary change on the machine.

 Do not get on the machine whilst working, nor have yourself carried by it.


ACCIDENT PREVENTION MEASURES


Follow the instructions described on the labels stuck on the machine.


 Scour the area where the machine is to be used and remove all foreign matters (stones, wire, sticks, etc...).


Carry out the checks, the operations of maintenance, adjustment and repair when the machine is not working and is unhooked from the tractor.


In case of road haulage, the highway code rules have to be observed.

 Danger through rotating parts! It is absolutely forbidden to take away or to damage the guards and to use the machine without them.

 Danger through thrown objects! The machine can throw objects or stones that may lie on the ground.

 It is forbidden to stay within the working radius of 10 m.

 Do not carry out operations of cleaning or maintenance with engine on, nor with connected power take-off.

 While working in presence of dust, wear a mask and glasses to protect your throat and eyes if your tractor is lacking a cabin.

The acoustic pressure level is inferior to 70 dB.

The safety signals are (fig. 2):

A= Before the use of the machine, read the manual.

B= Danger through thrown objects; keep the safety distance.

C= Danger through drive belts; do not take away the guards with machine on.

D= Turn off the engine and take away the key before any operation of repair and maintenance.

The corresponding labels are stuck on the machine in the indicated places. (fig. 3) These signals must always be visible and, when lost or illegible, they have to be replaced with original ones.

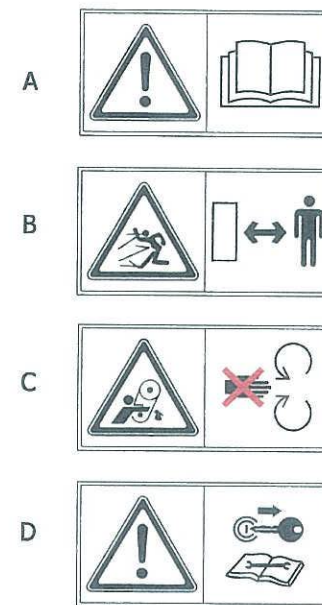


Fig. 2

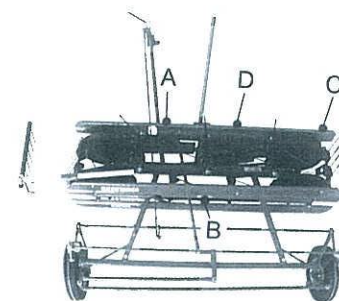


Fig. 3

Remember that a prudent operator is the best security against any accident.

USE OF THE MACHINE

Checks and advice before starting to work

The machine hooks directly to the connection of the motor mower in place of the cutter bar.

➡ Tighten strongly the fastening screws or make sure of the perfect connection in case of quick connection.

Fasten the supporting foot, which is near the connection, in high position, far from the ground.

The power take-off of the tractor must not exceed the speed indicated on the machine (R.P.M. max./ 1').

➡ Do not operate the machine bare-foot or in open-toe sandals. Always wear substantial footwear and long trousers.

Work only in daylight or in good artificial light.

➡ Walk, never run.

⚠ Always be sure of your footing on slopes. Work across the face of slopes, never up and down. Be careful when you are changing direction on slopes. Do not work on excessively steep slopes.

The controls

Steering lever for the control of the wheel direction from the driving seat.

Adjustment lever for teeth height above ground level directly from the driving place. (fig. 4)



Fig. 4

Guide for the user

-Hay-rake-

Position the machine parallel to the ground and lower the combs till they skim the ground. Adjust the lateral rake to the width you want (fig. 5).

Avoid stopping near the row when the combs are moving; if you need to, disconnect the power take-off.

-Tedder-

Position the rod (fig. 6) so that the machine results higher on the side of the hay unloading.

Remove the lateral rake.

➡ The maximum advancing speed is 5 Km/h.



Fig. 5

Adjustments for the use

➡ Before starting to work, control that the teeth are in good condition and well fixed.

In case of breaking of some teeth, you must buy the original spare parts (code 701).

Often control the plastic bearings and the bushings which drag the combs: these parts, which are subjected to wear and tear, must be replaced when their minimum thickness is 4 mm.

Their replacement, like any operation on the V-belts, must be entrusted to skilled workers.

➡ Make sure that the protective sheets are correctly fixed after each operation.



Fig. 6


Bad working and failure research


Inconvenience	Cause	Remedy	Danger
The combs drag the hay on the upper part	slow speed of the tractor	increase the speed	possible accumulation of hay on belts and pulleys
Accumulation of hay on belts and pulleys	incorrect use	unhook the machine from the tractor and remove the hay	never operate if the machine is connected to the tractor
The combs do not rotate	the drive belt is broken	replacement of the belt by skilled workers	never operate if the machine is connected to the tractor
The combs do not rotate	loosened belts	the belts have to be tightened by skilled workers	never operate if the machine is connected to the tractor

MAINTENANCE


Periodical maintenance

Any maintenance operation must be carried out by qualified workers according to what is written in this manual.

 When you have to carry out an operation of maintenance, you must turn off the tractor engine and disconnect the power take-off.

 Only suitable tools must be used and they have to be in good condition.

Often grease (at least every 8 hours of work) all the parts which are provided with grease cups located near the pulleys, the wheel axles, the connection and the height adjustment lever (fig. 7).

 Never grease the belts and the plastic parts!

Control that the thickness of the plastic parts is superior to 4 mm.

Control the tyre pressure (2,5 bar).

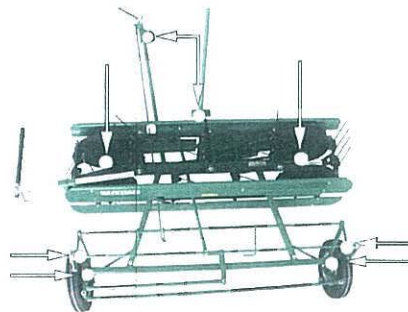


Fig. 7

Teeth replacement

To replace a couple of teeth (code 701), you must loosen the nut (code 133) which locks the connecting tang (fig. 8). Replace the new couple of teeth and take care of the perfect joint between the tang and the seat on the comb which carries the teeth; then fasten the nut strongly.

Extraordinary maintenance

Any operation of extraordinary maintenance must be carried out by skilled workers and it consists on the control of the V-belt conditions and also, if necessary, on the tightness or replacement of the belts, on the check of wear and tear of plastic parts with possible replacement of these last if their thickness is inferior to 4 mm.

INACTIVITY

Setting for a stop

Clean the machine when it is unhooked from the tractor and remove possible hay, remnants and dust, then do the operations of ordinary maintenance.

Cover the points of the teeth which are turned up with the proper accident preventive protections the machine is provided with (fig. 9).

Block the machine to avoid displacements caused by accidental collisions.

The user will benefit from finding the machine in perfect conditions when he starts working again.

Restarting

Control the tyre pressure (2,5 bar) and remove the protections from the teeth.

MACHINE TRANSPORT

The machine can easily be lifted by a crane through two belts, type- tested for its weight, which must be placed, the first on the connection and the other on the

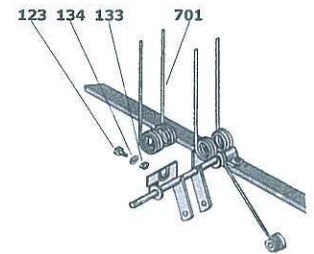


Fig. 8

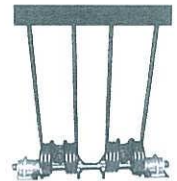


Fig. 9

connection longitudinal frame members of the wheels (fig. 10).

The points of belt placement are indicated on the machine by proper labels (fig. 11).

For the operations of loading and unloading, the machine must be placed on a level ground, with sufficient surrounding space.

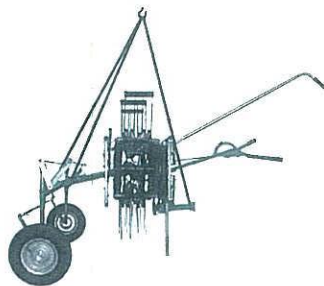


Fig. 10



Fig. 11

Technical data

Model	Combs nr.	Belts nr.	Working width cm	Maximum width cm
MIKY 120	8	2	120	150
MIKY 140	9	2	140	175

DEMOLITION AND GETTING RID OF THE MACHINE

Proceed to demolition and getting rid of the machine according to the regulations in force so as to avoid ecological damages.