

**Instruction and maintenance manual**  
**Harvesting frame**  
**Model IN-D5**



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DE MASI  
C O S T R U Z I O N I

Dear Customer,

Thanking and congratulations on choosing our machinery.

This manual was thought for you in order to answer any request during the use of machine. We recommend reading it very carefully before the use of the machine, as it will provide you with all the instructions you require to ensure its right use and maintenance and the feature of machines.

There are also further information on people and machinery safety.

We are sure that this manual allow to use the machine in the best way, so you could confirm your choose.

We have written very carefully this manual, but it's possible that you find some mistakes.

In this case we invite you to communicate with us, so we can improve our product quality and customer service.

Your faithfully  
De Masi Costruzioni S.r.l.

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De Masi Costruzioni

## Introduction

This manual contains the instructions, the feature and the technical information necessary for the correct use, the knowledge and the maintenance of the machines, both on basic version and on strengthened ones.

This instruction manual doesn't give a complete description of the parts, but you can find the necessary information how to use the machine and how to preserve some of its parts.

These instructions are referred to a normal use of the machines however it can change if they are used under different conditions. Following this instruction book you will obtain a very good performance of the machine.

In case of an incorrect use of the machines the De Masi warranty will become void.

For more complex repairs and revisions, it is necessary contact to De Masi Service Agent who have qualified personnel to assist you and ensure immediate and accurate technical support to obtain an efficient machine use.

The De Masi Costruzioni Service Agent is at your service to assure a ready and accurate technical support to guarantee a good machine performance.

You can find the engine characteristics on its own handbook enclosed in this manual.

The De Masi Costruzioni s.r.l. reserve the right to make change on the machine without adjourning this publication. These descriptions, illustrations and data have the only purpose to indicate.

Moreover, the De Masi Costruzioni s.r.l. declines every responsibility for some possible mistakes for clerical error or misprint.

To have the maximum guarantee of duration and good working machinery is necessary to use exclusively Original Spares Partes.

**De Masi Costruzioni Srl**

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### DATE OF THE MACHINE

**Type** ..... **Serial number**..... **Year of manufacture**.....

## Description of the harvesting frame

### Picker machine (general description)

L'**IN-D5** ( picture 1) is a machine that is used as an harvesting **frame**. It allow to pick directly fruits on the trees during the shaking of the plant, so you can spare or reduce to minimum the next picking phase from the ground (manual o mechanized).

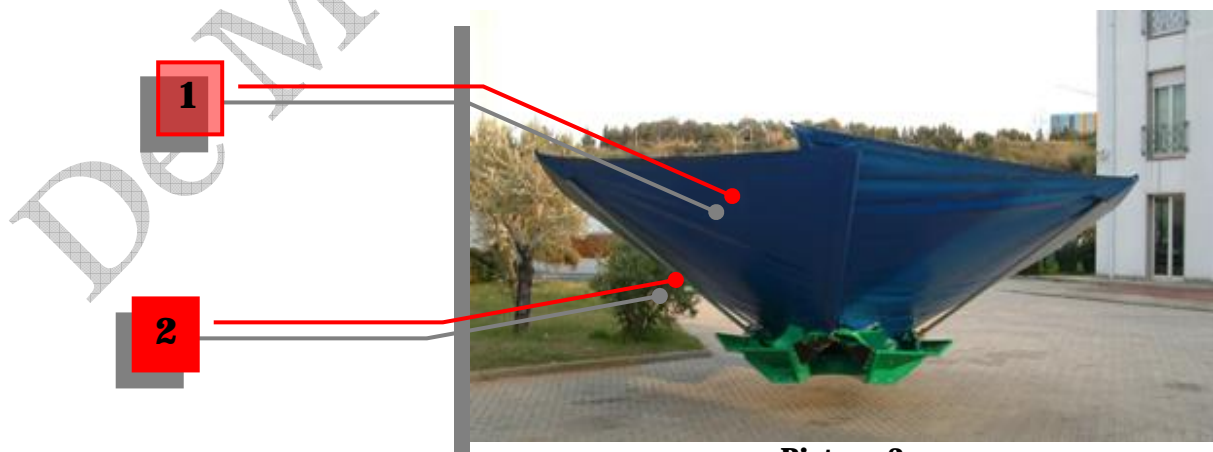


picture 1

Equipped with **unloading hatch** the machine allow to store directly the harvest into the container or into the means of transport that bring it to the collection place for the next production process.

### Harvesting frame details

*The attachment* is equipped with indispensable set of elements for the use and the right working of the same machine ( pictures 2,3,4,5,6).



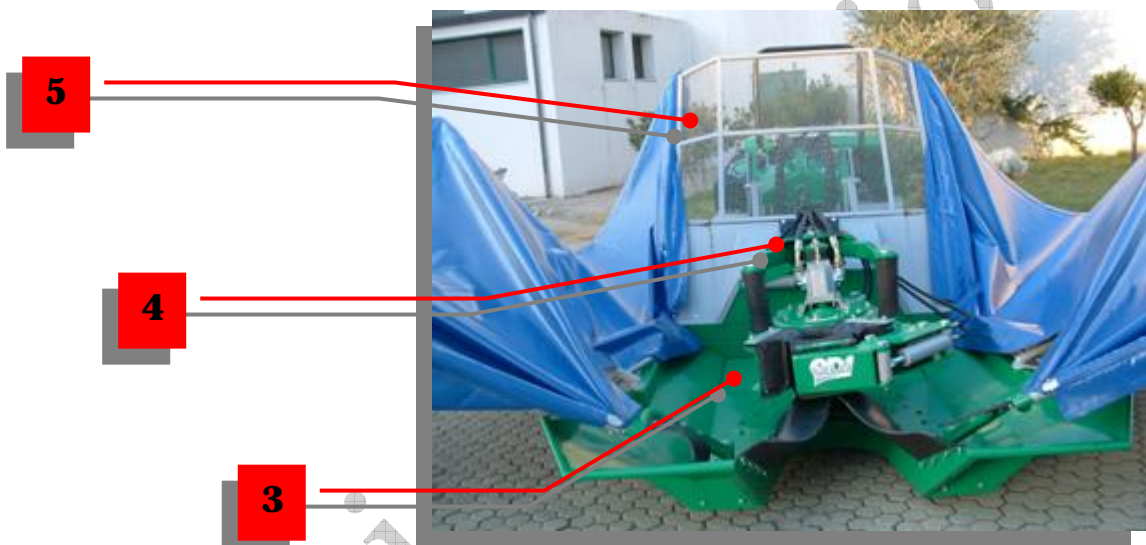
Picture 2

## **1** Umbrella canopy

The canopy is a fundamental part of the harvesting frame, it is assembled on the *support arms* which allow to have the shape of an “umbrella upside down” which represent the real harvesting surface of the *attachments*.

## **2** Umbrella arms

The umbrella arms are used as structure of the canopy and also they allow to open and close the harvesting *frame*, thanks to a mechanism which is linked up with two of the front arms.



**Picture 3**

## **3** Unloading hatch

It allow to empty *the frame* when you have finished the harvesting; the opening and the lock are regulated by an hydraulic system connected at the same hatch (see paragraph on the maintenance).

## **4** Support of the head

It allow to assemble the shaker head and also its rotation in comparison with the same axis of support.

## **5** Roll bar

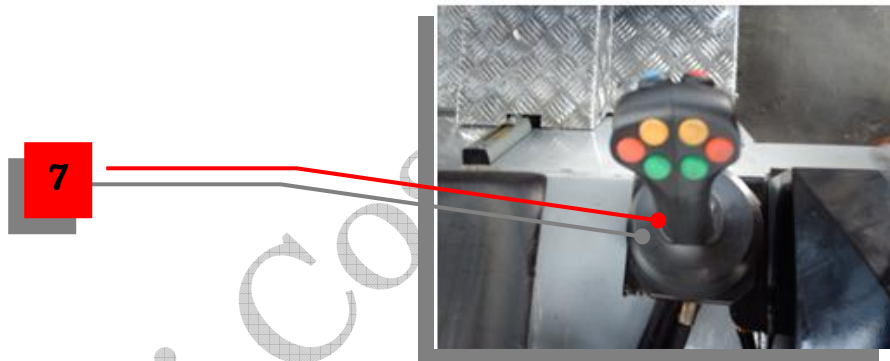
It is assembled on the rear part of the frame, it is used as operator’s protection and allow to see the working area during the harvesting.



Picture 4

### **6** Mechanical rapid coupler

They are placed on the rear part of the *frame* and allow to fix the attachment on the MM19 in mechanical way.



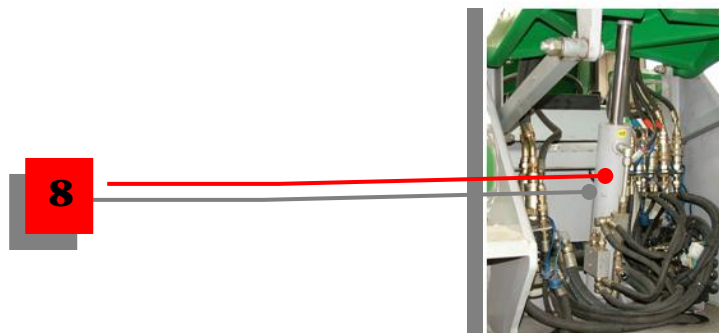
Picture5

### **7** Joystick

It is a very important detail of the machine, in fact it moves the MM19 and allow to operate the same *frame too* (see paragraph on its working).

### **8** Hydraulic rapid coupler

The hidraulic rapid coupler are used to connect the *frame* at the Machine MM19 with an hydraulic system and they allow also that the attachment works.



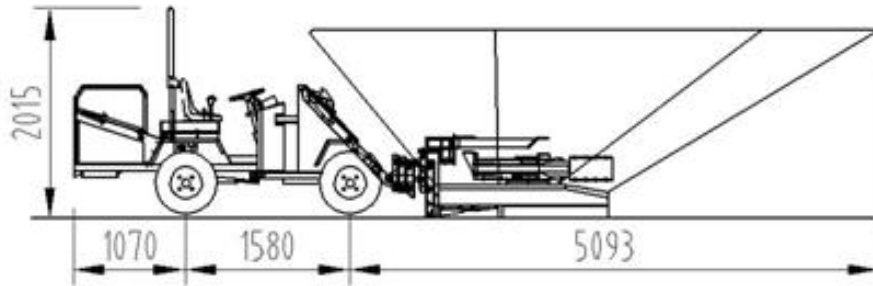
Picture 6

## Technical and feature date

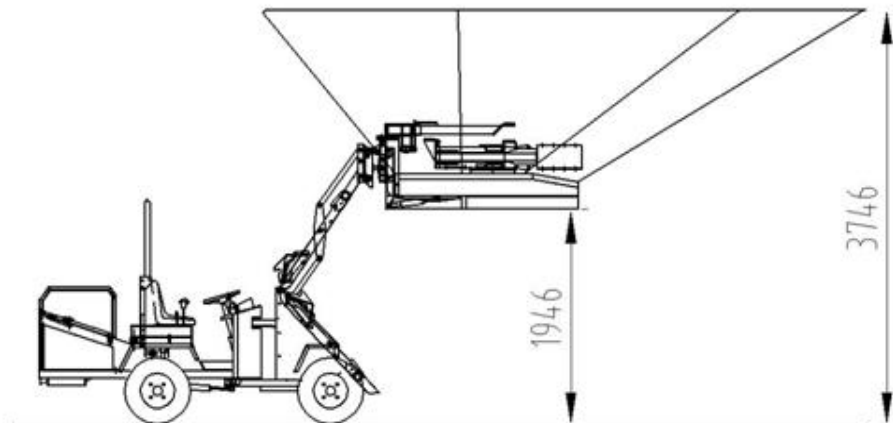
### Size and weight

In the following picture are indicated the size of the *harvesting frame*.

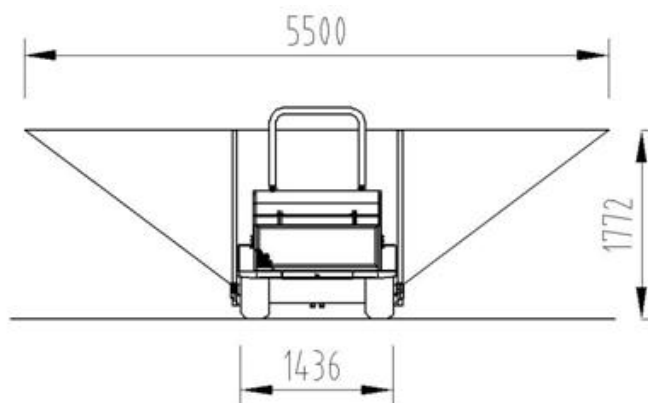
On the table are written the weight of the machine without attachments, the weight of the only *frame*, and the total weight of the machine (see table 1.1).



Picture 7



Picture 8



Picture 9

**NB:** the measure are in millimetre.

## Weight in running condition without driver

Weight KG	
MTR19 –shaker version	1480
Harvesting frame	380
GD1 head	180
SHA head	480
Machine IN-D5 with GD1	2040
Machine IN-D5 with SHA	2340

**Table 1.1: weight**

## Lubricating feature

De Masi Costruzioni uses Api products for its machine, and are considered of very good quality for the security and the life of the machine.

### Grease

The indicative specific average of the grease are reported on the table:

<b>api grease LT-S</b>	<b>Date</b>
Classificazione NLGI	2
Soap	Lithium
Aspect	Homogeneous
Colour	brown, reddish
Dropping point °C	195
Anticorrosive test	It's all right
Waterproof	1-90
Temperature of use is recommended °C	-20/+130

**Table 1.2: lubricating feature**

### Oil

Inflammability C.O.C. °C	240
Kinematic viscosity to 40 °C, mm <sup>2</sup> /s	110
Kinematic viscosity to 100 °C, mm <sup>2</sup> /s	12
Specific weight Kg/lt	0.898

**Table 1.3: oil feature**

## Assemble of the harvesting frame on the machine (MM19)

### Rapid connection

The machine was been projected to disassemble easily the attachments put on it thanks to *the rapid connection*, both hydraulic and mechanical. Follow a description of how to put on and out the picking machine and many hydraulic and mechanical connections that must be done during this operation.

### Assemble of the harvesting frame

To assemble the harvesting *frame* act as follow:

**1. put the machine on a level ground;**

*The harvesting frame must be put on the ground on its own face and on the same level of the machine.*

**2. slowly bring the machine near the rear part of the umbrella and insert the sealing hook of the machine into the metallic connection of the attachment (picture 10);**

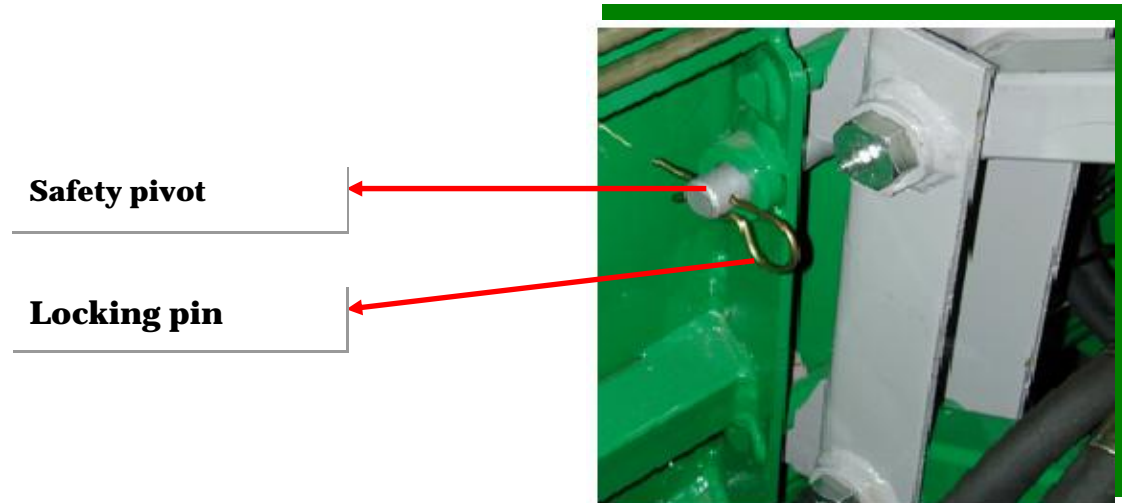


**Mecanical rapid connection**

*Move the lifter arm and make that the sealing hook of the machine coincide with that of the harvesting frame (see the paragraph joystick on the instruction and maintenance manual for the MM19 machine).*

When you have finished this operation:

**3. stopped the machine and put the safety pivots with its pins inside the hole on the rapid hook of the frame ( picture 11 ).**



**ATTENTION:**

Assemble the ballast on the rear part of the machine (see the instruction and maintenance for MM19 manual MM19) immediately after the harvesting frame has been assembled to the Machine MM19

4. connected all the hydraulic pipe of the attachment with the hydraulic clutches set on the machine.

**NOTE:**

The different connections are described on its paragraph on this manual

To disassemble of the frame

To remove the attachment you must put it on the ground and at the same level of the machine.

To remove the harvesting *frame* repeat the same operation at the contrary:

1. put it on the ground, stopped the machine and shut out the engine;
2. uncouple the hydraulic hooks, acting on the clutches;
3. remove the pins and the security pivots and remove the attachment from the suitable hooks.

**Note:**

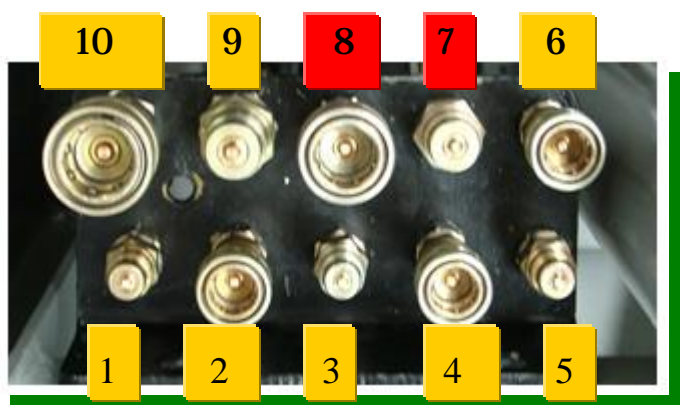
Before removing the hydraulic hooks you must stop the machine and the engine so that the pipes weren't under pressure.

**ATTENTION:**

**Disassemble the ballast from its position (see instruction and maintenance manual for MM19) immediately after that the frame has been disassemble from the MM19 machine**

Hydraulic linkage of the harvesting frame on the Machine

To avoid position mistakes of the different linkage, in the picture are represented the hydraulic clutches that you can see from your drive position (picture 12) and the different connection to do (Table1.4).



Picture 12

Table of the clutch				
N°	SIZE IN INCH	CLUTCH MACHINE	CLUTCH INTERCETTATORE	CONNECT/ NOT CONNECT
<b>1</b>	<b>3/8</b>	<b>Male connector</b>	<b>female</b>	CONNECT
2	3/8	Female	Male connector	CONNECT
<b>3</b>	<b>3/8</b>	<b>Male connector</b>	<b>Female</b>	CONNECT
4	3/8	Female	Male connector	CONNECT
<b>5</b>	<b>3/8</b>	<b>Male connector</b>	<b>Female</b>	CONNECT
6	3/8	Female	Male connector	CONNECT
<b>7</b>	<b>3/8</b>	<b>Male connector</b>		<b>NOT CONNECT</b>
<b>8</b>	<b>3/8</b>	<b>Female</b>		<b>NOT CONNECT</b>
<b>9</b>	<b>1/2</b>	<b>Male connector</b>	<b>Female</b>	CONNECT
10	1/2	Female	Male connector	CONNECT

Tabella



picture 13

To facilitate the linkage are been done some stained attraction that allow to identify the parts which must be connected (picture13).

### Electric jack plug

The machine MM19 gives electric current to the *harvesting frame* by the electric jack plug, which allow the working of the two electronic switches ( see paragraph on the joystick working).

In the picture 14 you can see the electric jack plug (male type) which it is on the basic and straighter machine, it is connected with an electric jack plug (female type) that is on the attachment.



Figura 14

## How the harvesting frame works

### Il Joystick



The joystick is a very important part of the machine that allow to move the machine MM19 (see use and maintenance manual of MM19), and to act the harvesting frame. The joystick is on the right side of the driving seat and it is equipped with many push buttons, both on the rear and on the anterior part. On the rear part there is a red push button, called **present man** because it's necessary an operator to do specific operation: if the push button **Present**

**man** is pressed the machine can be moving otherwise the machine is stopped (picture 15).

**present man press**



**Picture 15**

The joystick move the machine and the lifter arm. Pushing the joystick forward the machine goes on, pushing back the machine goes on the opposite way; if the joystick is moved towards the right, the lifter arm is moved towards the high, if it is moved towards the left , the lifter arm is moved towards the lower.

#### ***ATTENTION:***

The joystick is a very sensitive part to the sudden and abrupt movements. For this, before using the machine, the operator must have good familiarity with the joystick and know each buttons and its functions.

**Switching buttons**

Allow to use the same push button of the joystick for different operations of the harvesting frame (pictures 16,17).

**switching button A**

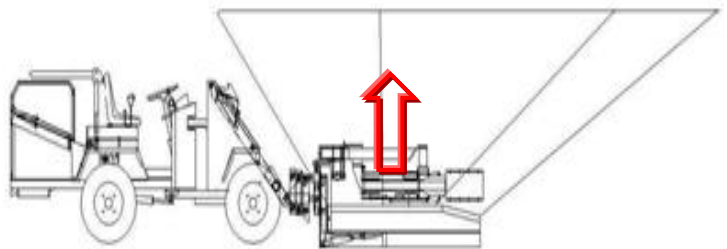
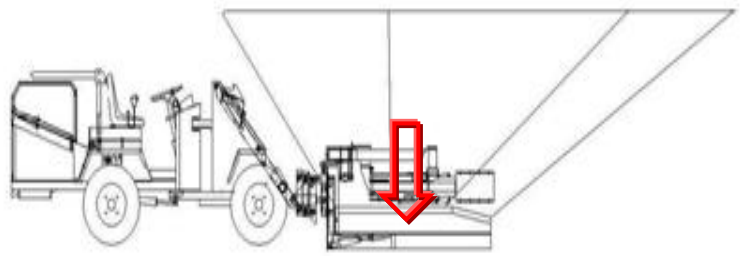


**switching button A**



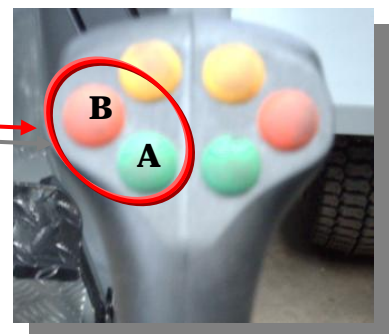
**The lifter arm movement**

To lift and to lower the harvesting frame is enough you move towards left (inside) or right (outside) the joystick (pictures 18,19).

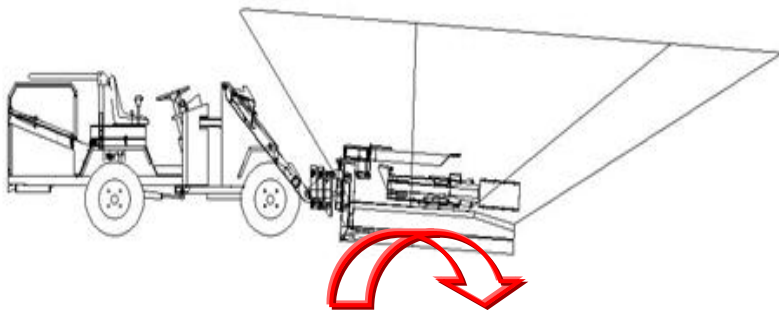


**The inclination of the umbrella**

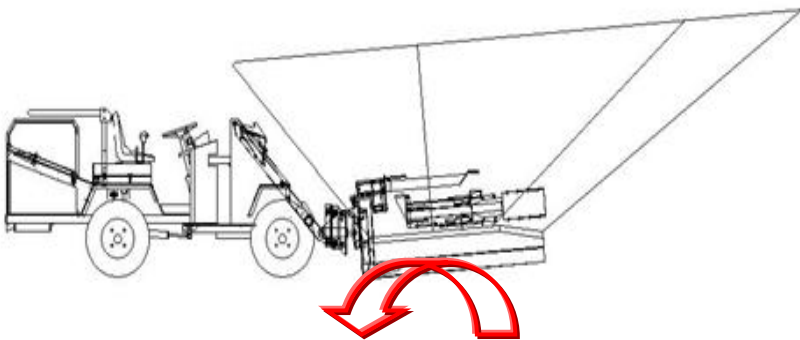
This control allow to tip the attachments in relation to the level (pictures 20,21,22).



**Picture 20**



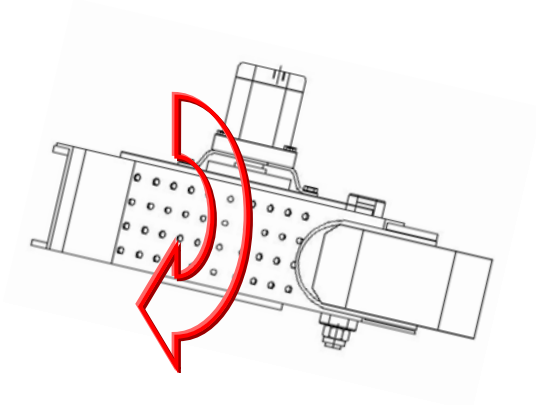
Picture 21



- **Green push button A**, inclination of the harvesting *frame* forward;
- **Red push button B**, inclination of the harvesting *frame* backward.

Orientation of the shaker head (GD1)

The shaker head can be oriented along its bearing axis (picture 23).



Picture 23

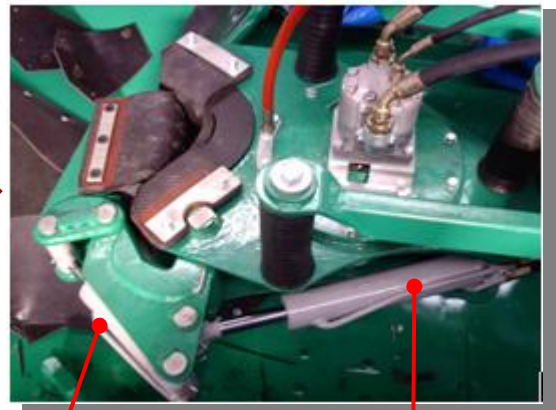
- **Yellow push button C**, anticlockwise orientation of the shaker head (operator side);
- **Yellow push button D**, clockwise orientation of the shaker head (operator side).

### Opening/closing shaker head

In this case you must impost **the switching button B** (picture 24).



Picture 24



Picture 25

**Second piston**

**First piston**

- **Switching button B towards high**, opening/closing first piston (picture 25);
- **Switching button B towards low**, opening/closing second piston.

- **Blue push button**, closing piston pliers (picture 25);
- **Red push button**, opening piston pliers.

### Opening/closing the unloading hatch

#### **Switching button A in the I position**



- **Red push button E**, closing the unloading hatch;
- **Green push button F**, opening the unloading hatch;

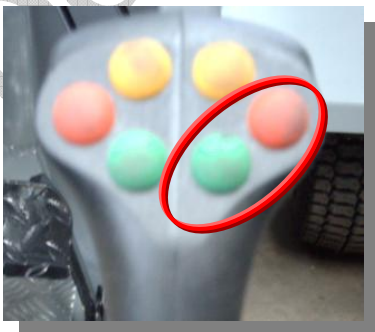
### Open/close the umbrella canopy

The same buttons are used to open/close the *unloading hatch*, in this case you have to impose before **switching button A** from the **I** position to the **II** one (picture 26).



**Picture 26**

- **set switch from the I position to the II one;**



- **Red push button**, opening the umbrella canopy;
- **Green push button**, closing the umbrella canopy.

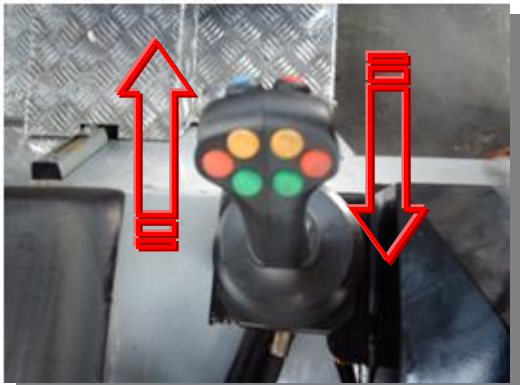
### Shaker phase

You have to impost before **the switching button A** (picture 27).



Picture 27

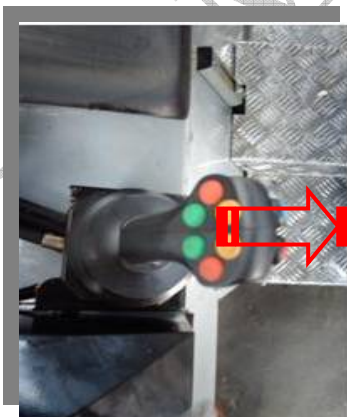
1. Set the switch from the I position to the II one;



Picture 28

2. shift the joystick forward (or backward) to start the shaker phase (picture 28).

**The shaker power** can be proportioned acting always on the joystick, particularly more the joystick is shifted forward (or backward) more the shaker power of the shaker head grows up.



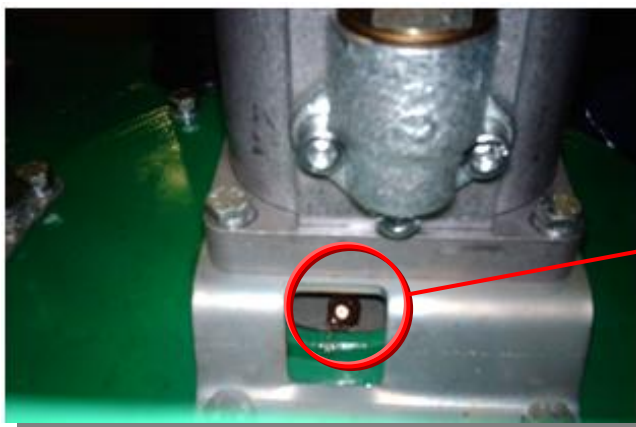
**The joystick is very sensitive part, you must take care to measure the power in function of its position.**

## Maintenance

The *harvesting frame* don't ask a special maintenance; it is important remember only to grease periodically, **generally every 30 hours working**, some parts of the machine undersigned in the following paragraph.

### Greasing of the parts

For a correct and durable use of the harvesting *frame* you must grease (with a specific mean) some parts of the attachments periodically (see picture):



Grease nipple

Picture 29: greasing of the shaker head



Picture 30: pivot- cylinder rotation head



Picture 31: : pivot- cylinder rotation head



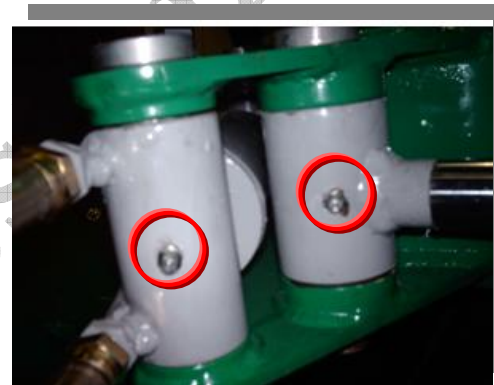
**Picture 32: rotation head**



**Picture 33: lower bearing head**



**Picture 34: Pyvot cylinder opening/closing plears**



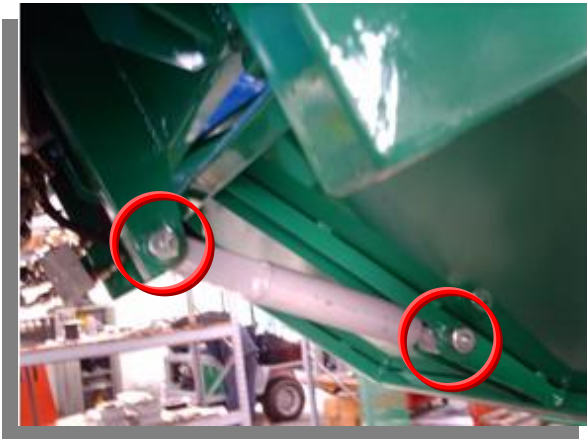
**Picture 35: pivot- cylinder opening/closing plears**



**Picture 36: Pivot cylinder opening/closing pliers**



**Picture 37: pivot pliers**



**Picture 38: fastener cylinder hatch**

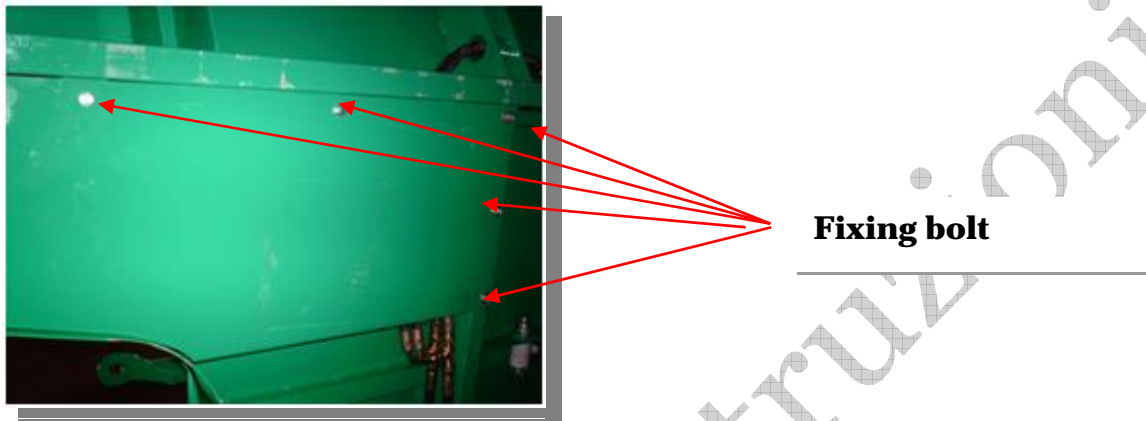


**Picture 39: fastener piston – attachment orientation**

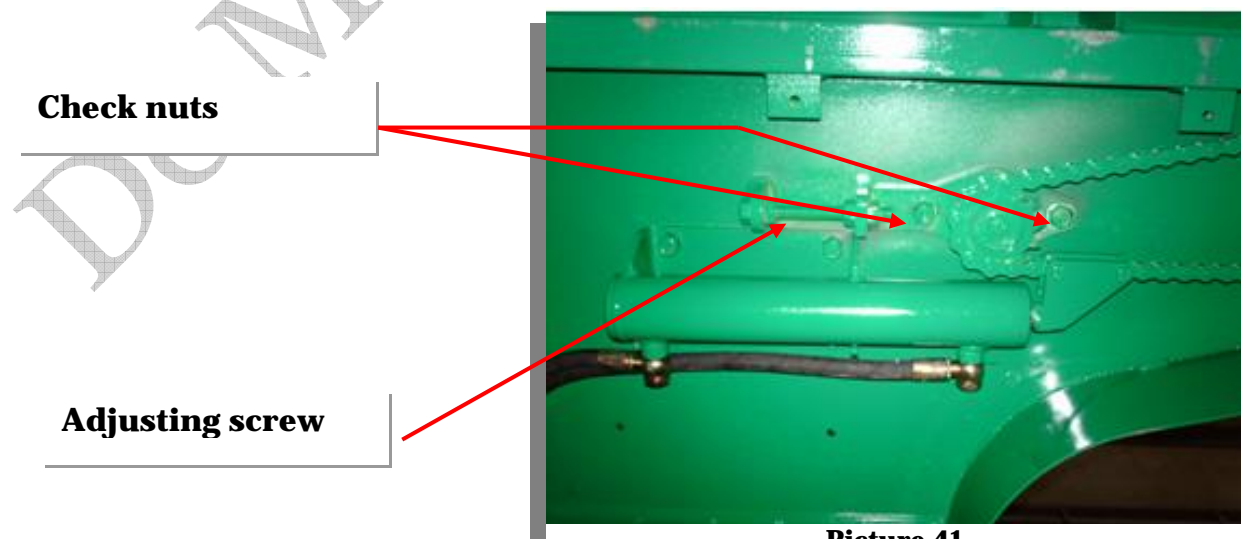
### Adjustment chain opening/closing mechanism

It's possible during the use of the machine that the chain of opening/closing mechanism of the sheet gets loose.

It's possible in this case, in the simple way, adjust the chain acting on its own adjusting screw (pictures 40,41).



- **Disassemble the two *carter* of protection set on the lower base of the harvesting frame unscrew the fixing bolt;**
- **Loosen the two check nut;**
- **Regulate the *chain tightener*, according to the necessity, acting on the adjusting screw.**



Picture 41

## SECURITY

**NOTE:**

**THIS SECTION DON'T EXCLUDE THE SECURITY RULES OF THIS MANUAL AS WELL AS OF THE MM19 MACHINE**

### GENERAL SECURITY RULES

The operator's safety was one of the prime consideration in the mind of engineers when they designed the machine. Manufacturer tried to make machine safe to foresee all the possible hazard. It's very high the number of accident due to imprudence and incorrect use of the machine. Therefore, we recommend to read carefully the manual, particularly the part on the safety rules, take care of the operations that result more dangerous than others, and consider that this manual is always enclosed to the instruction and maintenance manual for MM19, consequently the rules of this section **don't exclude** but **supplement** both the rules of this manual and of the instruction and maintenance manual for the MM19 machine.

This manual is an integral part of the *harvesting frame*; for this reason it must be kept very carefully and handily for any consult when the equipment is used, it is recommend or kept it in the machine MM19 for the life of the harvesting frame. In case of sale or transfer of the harvesting frame make sure that this manual and a copy of the MM19 manual are delivered intact together with the machine.

**NOTE:**

**INSTRUCTION AND MAINTENANCE MANUAL IS AN INTEGRAL PART OF THE HARVESTING FRAME  
NEVER USE THE HARVESTING FRAME WITHOUT HAVING READ CAREFULLY THE MM19 MANUAL AND THIS MANUAL**

**NOTE:**

**THE INSTRUCTION AND MAINTENANCE MANUAL MUST BE KEPT FOR THE LIFE OF THE HARVESTING FRAME.**

**IN CASE OF LOSS AND/OR DETERIORATION ASK IMMEDIATELY FOR A COPY TO THE MANUFACTURER .**

**DON'T ALLOW TO USE THE ATTACHMENT WITHOUT THIS MANUAL AND THE INSTRUCTION AND MAINTENANCE MANUAL FOR THE MM19 MACHINE.**



Before starting the machine, check that all the covers, the protections and the safety devices are in place. Check also that every prudence pictograms are attached to the *harvesting frame* and readable.

**ATTENTION:**

**DO NOT CARRY PASSENGERS OR THINGS ON ANY POINT OF THE HARVESTING FRAME**

**ATTENTION**

**NEVER MAKE MAINTENANCE ON THE MOVING PARTS UNTIL THEY HAVE COMPLETELY STOPPED MOVING BECAUSE THEY CAN CONTINUE TO SPIN ALSO AFTER THE POWER IS SHUT OFF**

**TRANSFER PRINTING**

There are some symbols on the different place of the machine, they are used to call the attention of the agricultural operator. The stickers are very important for the operators safety and people who are near working area. It's necessary maintain the stickers clean and intact; in case of deterioration and/or separation ask for the copies to the concessionaire of your area, indicating the stickers code which you can find on this manual. Below are indicated the transfers of the machine.

PRELIMINARY READING

It is positioned on the console

Carefully read the operator's manual, in case the machine is sold or transferred make sure that the book together with instruction and maintenance manual for MM19 are delivered intact with the machine and recommend the operator to read it.



code: d-02

**SAFETY ALERT SYMBOL**

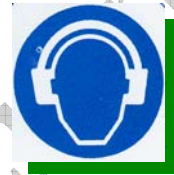
This is the safety alert symbol. Don't follow the recommended precaution means possible serious personal injury.



code: D-06

**HEAR PROTECTION REQUIRED**

Always wear a suitable hearing protective device such as earplugs to protect against loud noise that can cause impairment or loss of hearing.



CODE: D-07 d07

**AIR WAYS PROTECTION REQUIRED**

Always use protective masks to avoid the inhalation of chemical substances and exhaust gas.



CODE: d-08

**FEET PROTECTION REQUIRED**

Always use protective shoes, like boots, etc. never use the machine without shoes or with inadequate footwear, like sandal, slippers, etc



CODE: d-13

**HANDS PROTECTION REQUIRED**

Always put on your hands protective gloves appropriate to the job or maintenance.



code: D-11

**PROPER EYES PROTECTION REQUIRED**

Always use protective glasses appropriate to the job or maintenance.



code: D-12 12112

**SAFETY DISTANCE FROM MACHINE**

*It is positioned on the attacks of the attachment.*

Don't allow anyone to stand, stopped or stay near the attachment when the machine is working or it is stopped; exist a crash risk.



code: d-16

**DANGER PINCH POINT**

*It is positioned on the parts in movement: belts, cardan shafts, pulleys*

Never touch the moving parts of the machine with your body or any other object, could be entangled, in case of hazard stop immediately the machine. Don't remove the covers.



code: d-18



code: d-17

**GREASE UP AND LUBRICATE**

*It is positioned in any points where must be lubricated or greased up*

This symbol is positioned on the parts of the machine that must be greased.



code: d-21

**HEAD PROTECTION REQUIRED**

Wear head protection such as fit helmet when the rollbar has lifted but especially when it is temporarily lowered.




code: d-22

**USE IN SAFETY**



The machine must be used in condition of maximum safety to avoid hazard at people, things and or at the same machine. To the safety follow the instructions below.

## TO DRIVE THE MACHINE WITH THE UMBRELLA

1. Driving the machine on stable ground; in case of wet or slippery grounds proceed with extreme caution;
2. During disengagement from holes, ditches or uneven ground drive at low speed and without jolts;
3. Don't get on and down during the machine is working or from the harvesting frame;
4. Don't drive at high speed on the curves;
5. Use the suitable speed according to the ground;
6. Proceed with attention when you work near holes or scarps;
7. Before making manoeuvres, make sure that there is enough space to do it and that people, children or animals not get too close to the machine; signal your present by acoustic and light signals; keep in mind that the machine covers a different space which depend on the equipments put on it;
8. In case of few visibility, reduce speed and if it is necessary; ask for helping at people around you;
9. Border the work zone with the special ribbons of sign system; 
10. Don't leave the machine during engine running;
11. Wear close fitting to avoid remain entangled in moving machine parts;
12. Never leave the driving seat when the engine is running or when the key is inserted.

**TAKE CARE WHEN YOU ASSEMBLE THE HARVESTING FRAME PARTICULARLY NEAR THE MECHANICAL RAPID CONNECTION BECAUSE EXIST THE CRASH RISK**

## **MAINTENANCE OF THE MACHINE**

**Caution:** When you must make maintenance always remember that:

1. Keep the machine on stable ground;
2. If the machine is on a slant ground, insert the stoppers under the wheels;
3. When performing adjustment or maintenance on the machine first turn off the engine, apply the hand brake and lower the implement to the ground;
4. Never touch with any part of your body or with any object into moving machine parts, such as attachment, belts, movement parts;
5. Lock the hand brake and stop the engine;
6. Splashes of hydraulic oil under pressure can cause serious injury;
7. The overheated machine parts, if approached or put in contact with some solid, liquid or gas, could be cause of fires, scorches, deformations, explosions, etc;
8. Immediately stop the machine if you see loss of oil;
9. Before acting on an electric system component, shut the battery cable off;
10. Before acting on the hydraulic system take care that it is not in pressure; in any case wear gloves, glasses and any other protection to preserve from sudden oil come out;
11. Don't act on the hydraulic system when the hydraulic cylinder, also when the engine is stopped take lift any part of the machine;
12. Make sure that the hydraulic system haven't pressure before detaching any hydraulic pipe and in any case follow the individual suitable safety devices;
13. Constantly check that there aren't loosening in the attachment fixtures machine and particularly in the connection with the flexible pipes;
14. Check the noises or vibrations source which could develop breakdowns or anomalies if they were neglected.

## SAFETY DEVICES

### **DANGER:**



1. Before working the machine, verify that all the shelters, the covers and the safety devices are correctly installed on the MM19 machine, particularly check the anti-turnover structure.

2. It is absolutely forbidden to tamper with or to climb on the safety devices.
3. Always use the devices of individual protection as glasses, gloves, etc

## **ATTACHMENT ASSEMBLE**

### **THE BALLAST MUST BE ASSEMBLED ONLY WITH SOME ATTACHMENT**

1. An additional attachment on the machine involves a different distribution of the weights on the axles. See the paragraph on this manual.
2. Only assemble attachment suitable to the power of the machine and conforming to the norms.
3. Before hooking, unhook or using attachment consult the relative instruction books
4. Before detaching, hook or regulate the attachment, it is necessary put it at ground level, shut down the motor, apply the hand brake and eventually insert stoppers under the wheels and read the manual.
5. Pay attention on the curve to the centrifugal force practise in different directions , to the centre of gravity, with and without attachments.
6. It isn't allow stay in the working area, to stay under or near the attachment when they are lifted and/or in movement.
7. Before leaving the machine:
  - lower the equipment hooked up
  - lock the hand brake
  - shut down the motor
  - remove the ignition key
  - if the ground is slant, put stoppers under the wheels.
8. It isn't allow to work between the machine and the attachment when:
  - the motor is on
  - the handbrake has not been locked
  - there are no stoppers under the wheels.
9. Don't stand close to any hooked attachment, for the inertial force it may continue to roll after the engine is shut down.
10. take care to the correct assemble of the attachment, follow the instruction's book of both the MM19 and the Harvesting frame.
11. Remember that when the engine is on, the attachment can be in movement and some of them are dangerous for nature.

12. Don't clean, lubricate or repair the machine and the attachment hooked when they are in use; always shut down the engine and stop the machine.

## RESPECT FOR THE ENVIRONMENT

Maintain the labels and the instructions of the products used in agriculture; in case of ingestion of fuels, insecticides, chemical substances etc., immediately contact the "Emergency Department" having available the labels of specified products above.

## FIT CLOTHING

### Advice



Don't wear wide and fluttering clothes, they could remain entangled in the mobile parts of the machine or equipment, causing injury to the operator.



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