



Meijer Holland
bale handling systems

Meijer KM 8

**Manual
Bale grab**



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1. Introduction

The bale grab Meijer KM 8 is designed to be attached to a telescopic handler, front loader, wheel loader or forklift (hereinafter referred to as 'vehicle') in order to grab and transport straw or hay bales over a short distance. The bale grab is equipped with a hydraulic circuit that is to be connected to the hydraulic system of the vehicle.



It is very important to read the manual carefully before using the machine. There could be a risk of serious injury or damage to the environment if the bale grab is not used properly. Moreover, damages to the material or to the machine might occur. It is therefore important to follow the instructions of this manual.

2. Technical specifications

Length	217 cm
Width	200 cm
Weight	264 kg
Volume hydraulic circuit	2 litres
Max. load	8 bales (lxbxh) 105x50x40
Max. pressure hydraulic circuit	180 bar

CE-marking

This machine is certified with the CE-marking. This means that the machine meets the requirements of the applicable EC directives on safety and health. These directives are specified in the attached declaration of conformity.



- The non-observance of the rules and instructions stated in this manual is to be considered as serious negligence which leads to the extinguishment of any liability on the part of Meijer Holland concerning the resulting consequences. In this case, the risk lies exclusively with the user.
- Meijer Holland is constantly busy with the improvement of its products. Therefore it also reserves the right to make any changes that are considered necessary. There is no obligation to apply these changes to earlier delivered machines.

3. Safety

The following precautions are important to prevent injuries and damages.

1. Read the manual before use.
2. Only experts should (dis)mount the collector.
3. Only experts should operate the collector.
4. Use the grab only for bales.
5. Check whether the hydraulic system is working well right after having mounted the bale grab.
6. Follow the instructions for use (chapter 6).
7. The working area of the machine is 5 meters:
 - no persons are allowed within that range!
8. Operate the bale grab exclusively from the cabin of the vehicle.
9. Mind the rules for max. load (chapter 2).
10. Be aware of oil leakage:
 - Check the hydraulic hoses and cylinders at least once per day.
11. Replace damaged or worn wires and cylinders immediately.
12. Follow the instructions for maintenance (chapter 7).
13. It is not permitted to walk under the bale grab.
14. When driving longer distances or driving on a public road:
 - no bales are permitted in the bale grab!
15. When reversing:
 - Be careful that there are no people behind the vehicle.



Build the stack of straw and hay bales in a stable way so that it cannot fall over. The driver must be aware of the rules that apply to the lifting and hoisting of heavy loads.

4. The functioning of the bale grab

Mount the bale grab to a vehicle with a hydraulic system. The bale grab only works when it is attached correctly to the hydraulic system of the vehicle.

One movement is possible with the bale grab:

- The clamping of the bales takes place with the help of hooks that are mounted on rotatable axes which are powered by a hydraulic cylinder. This movement can be seen in the figure below.



Movement hooks

5. Installation, starting up, adjustment



Check if the bale grab is undamaged and in good condition on delivery. Please contact Meijer Holland if you notice any damages. Use the collector only if it is found to be in good order and after this manual has been read.

5.1 After delivery

- Place the bale grab on a solid and even ground.

5.2 Before moving the bales

1. Drive the vehicle in such a way to the bale grab that the mounting surface falls against the mounting point of the bale grab.
2. Attach the bale grab to the vehicle.
3. Check the couplings for dirt. Attach only clean couplings to prevent dirt from entering the system.
4. Connect the two correct hydraulic hoses of the vehicle to the two quick release couplings above the mounting point of the bale grab. The upper hose is for clamping the bales and the lower one is for releasing them.
5. Check for leakage.
6. Check the correct control of the cylinder from the hydraulic system.
7. Put the hydraulic system under pressure and test the bale grab by opening and closing the hooks.

5.3 After moving the bales

1. Place the bale grab with the vehicle on a solid and even ground.
2. Check whether the bale grab stands steady.
3. Disconnect the hydraulic hoses and check them for leakage.
4. Dismount the junction of the vehicle from the bale grab and drive away in reverse.



Store the collector in a dry and clean environment.

6. Operation and use

1. Drive the vehicle in such a way right to the bales that the bale grab directly hangs above the bales. Make sure that the bales are lying lengthwise.
2. The red guide arm pushes the bales together for extra support.
3. When the frame is pushing against the bales, the hydraulic system can be operated. As soon as the bales are clamped, put the hydraulic system back in neutral.
4. Let the bales sink to the loading floor en put the hydraulic system in 'return'. By doing so, the hooks open and the bales are released.
5. The vehicle can now be driven away from the bales in reverse.
6. The bale grab is ready to grab and move another series of bales.



Use Meijer KM 8

7. Maintenance

Regular maintenance extends the life span. The bale grab needs relatively few maintenance.

Maintenance schedule

Before every use	Check the bale collector for damages and wear. Replace damaged or worn parts.
	Check the hydraulic clutch, hoses and cylinders for leakage, wear and damages. Let problems be fixed immediately by a competent mechanic.
At least once a week	Clean the collector of caked dirt and dust. When using a high pressure washer, avoid the electrical parts.
	Fill the grease nipples on the moving parts. At extensive use: after every 8 working hours add a bit of grease (0,86 grams per grease nipple).

8. Problems and solutions

The bale grab has relatively few moveable parts and damages are unlikely to occur when used properly. Repair or replace damaged and worn parts immediately. Spare parts are available at Meijer Holland.



- Turn off the engine of the vehicle while you are fixing one of the below-mentioned problems.
- Turn off the power supply during welding.
- Hydraulic fluid is a poisonous liquid that is harmful to the environment. Never try to shut a leak with your hand. Fluid under high pressure easily penetrates through skin and clothing and can cause serious injuries.

Problem	Possible cause	Solution
The hooks are not moving.	The hydraulic circuit of the bale grab is not attached to the hydraulic system of the vehicle.	Attach the two hoses.
	The hydraulic circuit of the bale grab is not attached correctly.	Exchange the wrongly attached hydraulic hoses.
	Malfunction in the hydraulic system of the vehicle.	Consult the manual of the vehicle.
	The hooks or the axes on which they are attached are blocked.	Look for the blockade and remove it.

9. Environment and disposal

The bale grab has a hydraulic circuit that contains hydraulic fluid, a poisonous liquid that is harmful to the environment. Regularly check the bale grab for leakage and replace damaged or worn parts immediately.

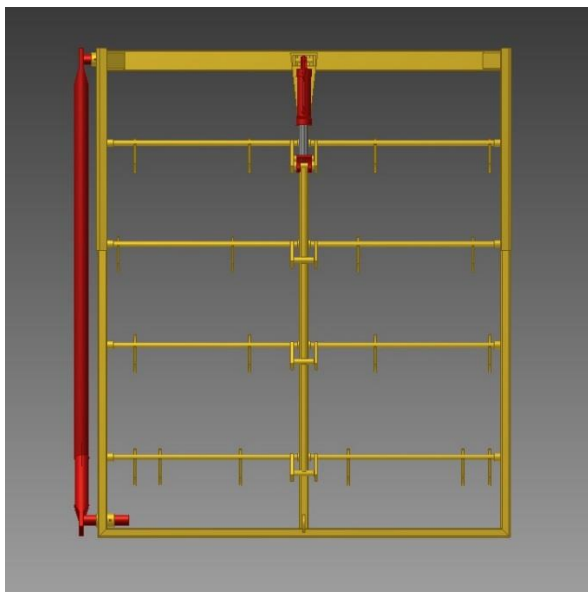
9.1 Disposal of the bale grab

- Drain the hydraulic system and let the fluid be disposed by an authorised company.
- The rest of the bale grab is made of coated steel and can be disposed of as scrap.

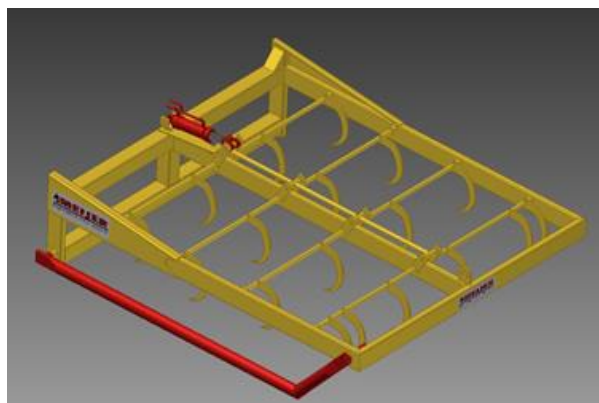
10. Assembly drawings Meijer KM8



Front view



Top view



Isometric view

CE-Declaration of conformity

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declare under our sole responsibility that:

- 1. we are the manufacturer of:**
Meijer KM 8 (model MHKM08)
- 2. the machine complies with the following applicable directives:**
Machinery directive 2006/42/EG
- 3. The machine is designed and constructed according to European standards, including:**
 - EN 349:1993+A1:2008
 - EN-ISO 4413:2010
 - EN-ISO 12100:2010

The electrics and the control section are the responsibility of the customer.

Groningen, 1 July 2016

J.F. Lommerts, *director*