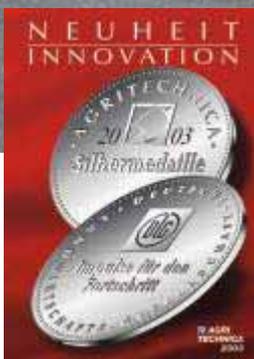


# Orkel

## Orkel MP2000 Compactor



[www.orkel.no](http://www.orkel.no)

English

The **Orkel MP2000** is world wide the first series-produced round bale combination for organic short fibre products !

**A new era has started. Now it is possible to store, transport, distribute and deal with maize silage and other short fibre products in wrapped round bales.**



### **Maize silage in round bales becomes more and more popular**

No investment in silos, easy handling and the safe feeding quality, as well in the summer months, makes the demand for maize silage in round bales rising very fast. With the Orkel MP2000 it is possible to bale and wrap maize silage quickly and proper in one process.

The quality of the maize bales is undisputed. Small farms can buy or get them baled. Bigger farms which can feed them in the warm summer time, when the danger for past fermentation is big. Also horse owners appreciate the maize bales. One an the same bale can be used for feeding for several weeks without becoming bad.

### **Economic use by high flexibility**

By it's high flexibility, the MP2000 can be used in a very economical way. The machine is set up or taken down in very short time. This, together with the fast transportation on the road, makes it possible to produce bales as well for customers demanding a small number of bales. The compact construction makes it possible to place the machine nearly everywhere, for example on a farm or at the edge of a field.

## The machine for the professional contractor

A tractor is used for both, operating and pulling the MP2000. For driving, the tractor has to be placed sideways and connected with the pto shaft to the machine. The pto shaft operates a hydraulic pump, which delivers oil for the complete hydraulic system of the machine. The MP2000 is constructed for 40 km/h. The breaks are prepared for both hydraulic or air pressure.



## Mobility

Fast transportation on the road from one customer to the other is important for the economic use of the MP2000. The customer doesn't earn money when driving on the road!



## Reliable wrapper technology

The bales are wrapped with the proved Agronic double arm wrapper. After sliding on the ground, the bales can be picked up and transported to the storage place.



## Small losses on the ground

The rollers of the baling chamber are covered with two big rubber belts to reduce losses. The material falling out, will be recycled by a continuously going conveyor under the chamber and returned to the elevator.



## Careful handling of the bales

When released from the chamber, the bales drop carefully on the conveyor belt. This moves them onto the wrapper table. After being wrapped with film, the table tilts and the bales slide gently to the ground.

## Stable and compact bales

High chamber pressure, stable net and careful handling result in compact bales which stay in good shape when moving from the chamber to the wrapper. It is very important, that little material breaks out of the sides of the bales, before wrapped with plastic film. For maize silage the bale weight is, depending on dry matter content, between 700 and 1000 kg.



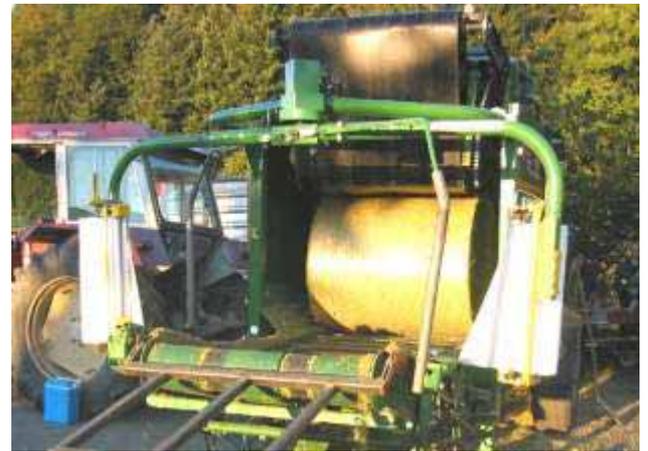
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## Hopper and dosing unit

The MP2000 can be used with or without the hopper. If the hopper is dismantled, the elevator will be filled directly by a funnel. The hopper has a capacity of approx. 6 m<sup>3</sup> loose material. The hopper can be filled with different kind of equipment, for example with a wheel loader or a conveyor belt. A sensor helps to control the propulsion of the material into the chamber.



## Fully automatic operation

After the bale started moving to the wrapper, the chamber closes and the elevator immediately starts feeding the empty chamber. Has the bale reached the wrapper table, the wrapping process is started.

The machine operates fully automatic. All functions are controlled by the electronic CAN BUS control system. You only have to make sure, that there is enough material in the hopper/elevator, and the bales have to be taken away after wrapping. From time to time empty net/film rollers have to be changed. A sensor in connection with the control system makes sure, that the elevator always delivers the max. amount of the material into the chamber. That's one of the requirements for a high capacity (40-50 bales/h).



If the machine is running, the operator has nearly nothing to do anymore. All functions can be checked on the control panel, f. ex. speed of all conveying elements, chamber pressure or wrapping speed. If an error arises or the film or net tears, the whole machine stops. After the error is repaired, the automatic operation can easily be started again.

## Fast setting up and taking down



The MP2000 can be set up or taken down easily and in very short time. This flexibility holds the costs for preparation low. Therefore it is no problem for the contractor to have customers with the demand of only a little number of bales.

After the tractor is uncoupled, the draw bar has to be retracted hydraulically. If using the hopper, it has to be lowered hydraulically to working position. With the hydraulic jacks, the machine can be levelled on every ground, f.ex. at the edge of a field. That's very important for the machine to operate satisfactorily.

The MP2000 can operate with or without hopper. In cases, where it is required to feed the elevator directly by a conveyor, it is possible to dismantle the hopper. The dismantling can not be done on the field, you need a workshop to carry out this operation in advance.



## Easy operation with ISO-BUS control system

After starting the machine, the control system takes over fully automatic. The speed of the conveyors, the chamber pressure (bale density) or wrapping speed are some of the parameters which easily can be adjusted by pressing a button. If f.ex. the film or the net tear off, the whole machine stops. All parameters can be controlled and adjusted via the touch screen of the control panel.



# Reasons/arguments for pressing and wrapping maize silage in round bales

Maize silage has all assumptions for high value forage. It combines high energy concentration with high yield, in average 43t/ha (whole plant) and 130 GJ NEL/ha. Moreover, unlike grass, maize is a perfect energy source and also contains starch that helps dairy farmers improve rations.

## **Forage quality**

Middle-sized livestock farmers have big problems with past fermentation of maize silage in big silos. After many years experience with maize in round bales the conclusion is:

- You attain forage of highest quality!
- It becomes possible to feed maize silage as well in the warm summer time, where the danger for secondary fermentation is very high. Key word: all-the-year silage feeding.

## **Changing to maize silage**

Livestock and dairy farmers who wish to start with maize feeding still remain flexible and are not forced to invest in expensive silos.

## **Over quantity**

Maize that is too much for the big silos can be stored or sold in round bales.

## **Expanding**

For hard-pressed livestock and dairy farmers high-density bales may allow them to expand without having to buy or rent extra land.

## **"Everybody" gets the opportunity to feed maize silage**

Farmers who run in areas (climate or geography) where the cultivation of maize is not possible, get the opportunity to feed maize silage.

## **Commodity**

Packed in round bales, maize silage becomes commodity in easy handled packs. This means this forage is more easily sold and gives these forage crops a serious value.

## **Not expensive storing method**

Researches show the round bale method for maize silage is competitive to alternatives like clamp and tower

## **Reduction of expensive concentrates**

Baled maize could not only boost outputs but also cut the cost on expensive bought in concentrates.

## **Possibility for contractor or tillage farmer**

A contractor or tillage farmer could, for example, grow maize on a contract and harvest and store the crop until it is required in the winter.

## **Substitute for drying maize**

In some cases maize is dried and pressed into pellets for selling reasons. This process has a high consumption of energy. Instead of this it is possible to ensile the maize in round bales.

# Orkel MP2000 - Compactor



## Technical data

Height	[mm]	3760	- Breaks (hydraulic or air)
Width	[mm]	2500	- Autom. greasing of bushings
Length (transportation)	[mm]	7600	- Autom. chain lubrication
Length (operation, with hopper)	[mm]	10000	- Hydraulic chamber locking
Length (operation, without hopper)	[mm]	7700	- Bushings technology
Total weight with hopper	[kg]	7800	- Net tying
Total weight without hopper	[kg]	6750	- Operation by tractor pto
Bales/h	[Stck.]	40-50	- Stationary operation
Power requirement	[kW]	90	- Fully automatic CAN BUS control system
Chamber diameter	[mm]	1150	- Doublearm wrapper
Chamber width	[mm]	1200	- Electro hydraulic control of all functions
Max. speed on the road	[km/h]	40	- Electrostatic drive of the bale chamber
Wheels		385/65-22.5	

Manufacturer reserves the right for changes. – November 2003  
Photos of products may show extra equipment.

## **FARMTECH**

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