



## BALE WRAPPERS



SIPMA OZ 7500 TEKLA  
SIPMA OS 7510 KLARA  
SIPMA OS 7520 MIRA  
SIPMA OS 7521 MIRA

SIPMA OS 7530 MAJA  
SIPMA OS 7531 MAJA  
SIPMA OS 7650 GAJA  
SIPMA OR 7532 DIANA

# OWIJARKI BEL

Technology of hay silage processing into filmwrapped round bales ensures the highest quality of fodder.

The basic machines used in this process are bale wrappers designed to wrap the bales made of semi-dry grass or papilionaceous plants with the dry mass content of 40-50%. The bales are wrapped with a special stretch film, which protects the ensilaged material from air, moisture and light. The ensilage process takes about 6 weeks, after which the fodder is suitable for animals.

SIPMA offers bale wrappers with advanced design features which meet the demands of all users.



## Main advantages of the offered technology are:

- independence from weather conditions;
- possibility of ensiling small amounts of fodder;
- no losses related to the process of harvesting, ensiling, storage and feeding;
- easy fodder pickup and portioning;
- low man labour costs;
- elimination of environmental pollution by silage juices.

# BALE WRAPPERS SIPMA OZ 7500 TEKLA ▪ SIPMA OS 7510 KLARA

## Solid frame

made from bent and welded sections, makes the whole design stable and resistant to overloads.

## Universal foil film dispenser

used in the SIPMA bale wrappers allows using 0.50 and 0.75 m wide films. The 0.75 m wide bale wrapping film requires only 16 turns of the wrapping table and greatly reduces the wrapping time.



WRAPPING TIME 120 sec.



## Aluminium milled foil film dispenser rollers 1

ensure the initial foil stretching, tightness and proper adhesion during the wrapping process.

## Bale counter

indicates the current number of foil layers and informs about the end of wrapping process.

## Wrapping method

of the loaded bale is that successive film layers overlap each other by 50%. It ensures that the green fodder will be properly stored and efficiently ensiled.



## SIPMA OZ 7500 TEKLA

Stationary SIPMA OZ 7500 TEKLA bale wrapper is designed for small and medium size farms. It is installed on the threepoint linkage of the tractor.

## Tilting table 2

allows discharging wrapped bales, protecting them from mechanical damage at the same time. After unlocking the latch, the tilt table is lifted by tractor's hydraulic lifting system and the bale rolls back.

## Mounted type construction

allows mounting wrapper on the tractor three-point linkage and bale wrapping at the storage areas with the use of a loader.

## Specially designed rollers

ensure proper bale wrapping, so that even shapeless bales rotate properly.

## Durable, maintenance-free bearings

ensures long and failure-free work.

## Foil cutter (additional equipment) 3

enables cutting off the foil during the rotation of the table after bale unloading.

## Bale elevator (additional equipment)

allows putting bales on their bottom (on the right or left side of the bale wrapper).



## SIPMA OS 7510 KLARA

Self-loading SIPMA OZ 7510 KLARA bale wrapper is mounted to the tractor on the three point linkage and has supporting wheels. It is equipped with a lift arm that picks the rolled up bales from the rear side and allows for wrapping when the tractor moves forward towards the next bale or towards the place of storage. The machine has a modern universal film dispenser (50 cm and 75 cm wide films) as well as a film cut and hold unit eliminating the need of any interventions except for the installation of new film rolls. The machine is controlled from the tractor cab by means of a hydraulic divider.

### Mounted type construction

allows mounting wrapper on the tractor three-point linkage enables high mobility of the wrapper and low labor consumption due to one-person operation.

### Wheels rotating around their vertical axis <sup>4</sup>

combined with mounting of the machine on the three point linkage, provide high maneuverability of the tractor-wrapper set.

### Drawbar (additional equipment)



enables aggregating the bale wrapper by the tractor's transport fastener.

### Foil catcher (additional equipment)

enables catching and cutting foil in difficult weather conditions.

### Hydraulic table lock (additional equipment)



prevents the table from rotating on unevenness.

 BACK-TO-BACK WORK  
 WRAPPING TIME 120 sec.



## BALE WRAPPERS

## SIPMA OS 7520 MIRA · SIPMA OS 7521 MIRA

 SIDE-BACK WORK  
 WRAPPING TIME 60 sec.



MODEL		OZ 7500 TEKLA	OS 7510 KLARA
Bale dimensions			
diameter	mm	1300	1200 - 1300
width	mm	≤ 1250	≤ 1300
Maximum bale weight	kg	1000	1000
Foil width	mm	500 / 750	500 / 750
Bale wrapping time	sec.	~ 120	~ 120
Minimum number of bale wraps		two times	two times
Power demand	kW (HP)	28,5 (38)	20 (30)
Equipment			
bale elevator		○	×
drawbar (d = 40 mm)		×	○
drawbar (d = 50 mm)		×	○
foil catcher		×	●
foil cutter		○	●
hydraulic table lock		×	○
mechanical table lock		×	●
Dimensions			
length	mm	2600	2170
width	mm	1200	1940
height	mm	1200	2150
Weight	kg	480	780

● – standard, ○ – additional equipment, × – unavailable

### „Side-back“ technological system

allows working in a direction perpendicular or parallel to the direction of the press work (across a field), ensures fast loading of bales, wrapping with foil during the drive until the next bale and high efficiency.

### Universal foil film feeder <sup>5</sup>

allows the use of 0.50 and 0.75 m wide films.

### Aluminium milled foil film feeder rollers <sup>6</sup>

ensure the initial foil stretching, tightness and proper adhesion during the wrapping process.

### Bale elevator <sup>7</sup>

allows for putting bales on their bottom or rolling them on their side surface into the field and also protects the wrapped bale from possible damage during unloading.

### Hydraulic film catcher-cutter <sup>8</sup>

works automatically after each bale wrapping process. It provides a considerable acceleration of the wrapping process and its efficiency.

### Wide tyres

provide the opportunity to work on wetlands and peat fields.

### Autonomous hydraulic power system <sup>9</sup> (additional equipment):

- separates the hydraulic system of the wrapper from the hydraulic system of the cooperating tractor;
- ensures constant and optimal demand of oil supplying the hydraulic block of the wrapper;
- maintains a constant level of oil purity in the system.



## SIPMA OS 7520 MIRA

Self-loading bale wrapper SIPMA OS 7520 MIRA is an economical version of the MIRA bale wrappers, mechanically controlled by the lever distributor.

### Bale wrapping counter <sup>10</sup>

shows the current number of foil wraps, informs about the end of the bale wrapping cycle and counts number of wrapped bales.

### Lever distributor <sup>11</sup>

allow to control the wrapper from the tractor cabin.



## SIPMA OS 7521 MIRA

SIPMA OS 7521 MIRA bale wrapper is fully automated selfloading machine, attached to the tractor. Full automation of the process is provided by an advanced control system which allows pre-programming a wrapping cycle.



### Advanced hydraulic block

provides lower flow resistance in the hydraulic system and gives more control possibilities thanks to the option of setting the speed of all working elements of the wrapper.

### Hydraulic system with Load-Sensing function (additional equipment)

contributes to the reduction of fuel consumption and extends the service life of the tractor's hydraulic pump.

### Improvement the work culture of the hydraulic system

through the double reduction of average work pressure and the reduction of power consumption.

### Sensor on the loading arm <sup>12</sup>

enables automatic initiation of the wrapping process.

### Drive motor brake

makes impossible to move the table during the drive.

### Functions of the electronic controller:

- manual or fully automatic operation of the wrapper;
- graphic visualization of current wrapping process;
- counting the number of wrapped bales;
- programming the number of foil layers (depending on the kind of film used), when reached, the machine passages automatically to next work stage;
- displaying the status of sensors (evaluation of efficiency or inefficiency of their operation) allows to replace damaged sensor, without the need to call the service;
- displaying the sum of wrapped bales since the installation of the electronic control on the wrapper;
- automatic machine setting for work and transport;
- large LCD graphic display showing the actual work parameters;
- smooth adjustment of rotation speed and lifting and lowering of the wrapping table;
- smooth regulation of the speed of lifting and lowering of the loading arm;
- number of table turns can be corrected without interrupting the wrapping process;



- table rotation speed can be corrected without interrupting the wrapping process;
- possibility of pausing the automatic table wrapping mode and resuming it at the storage location;
- foil feeding control - an additional sensor of foil stops the bale wrapping process in case of foil breaks or finishes;
- controlling the condition of the oil filter contamination;
- editing all parameters of the automatic mode;
- foreign language support.

MODEL		OS 7520 MIRA	OS 7521 MIRA
<b>Bale dimensions</b>			
diameter	mm	1200 - 1500	1200 - 1500
width	mm	≤ 1250	≤ 1250
Maximum bale weight	kg	1000	1000
Foil width	mm	500 / 750	500 / 750
Wrapper drive		hydraulic	hydraulic
Bale wrapping time	sec.	~ 60	~ 60
Oil demand	l/min.	20 - 90	20 - 90
Power demand	kW (HP)	≥ 35 (48)	≥ 35 (48)
<b>Equipment</b>			
bale elevator		●	●
universal foil feeder (500 / 750)		●	●
foil roll feeder		●	●
hydraulic foil catcher-cutter		●	●
electronic control		×	●
lever distributor		●	×
electric installation allowing to move on public roads		●	●
wide tyres 400 x 60 - 15,5		●	●
hydraulic system with Load-Sensing function		×	○
autonomous hydraulic power system		○	○
<b>Dimensions in operating position</b>			
length	mm	4600	4600
width	mm	4100	4100
height	mm	2300	2300
<b>Dimensions in transport position</b>			
length	mm	4600	4600
width	mm	2400	2400
height	mm	2800	2800
Weight	kg	1540	1550

● - standard, ○ - additional equipment, × - unavailable

# BALE WRAPPERS

SIPMA OS 7530 MAJA ▪ SIPMA OS 7531 MAJA ▪

SIPMA OS 7650 GAJA



FRONT-BACK WORK  
WRAPPING TIME 100 sec.



## „Front-back” technological system

allows work in the same direction as press works. Such solution ensure fast bale loading and foil-wrapping during ride to the next bale. Coupling with press, ensuring simultaneously baling and wrapping during one ride.

## Universal foil film feeder <sup>13</sup> (SIPMA OS 7530 MAJA and SIPMA OS 7531 MAJA)

allows the use of 0.50 and 0.75 m wide films.

## Aluminium milled foil film feeder rollers <sup>14</sup>

ensure the initial foil stretching, tightness and proper adhesion during the wrapping process.

## Bale elevator <sup>15</sup>

allows for putting bales on their bottom or rolling them on their side surface into the field and also protects the wrapped bale from possible damage during unloading.

## Wide tyres <sup>16</sup>

provide the opportunity to work on wetlands and peat fields.

## Autonomous hydraulic power system <sup>17</sup> (additional equipment):

- separates the hydraulic system of the wrapper from the hydraulic system of the cooperating tractor;
- ensures constant and optimal demand of oil supplying the hydraulic block of the wrapper;
- maintains a constant level of oil purity in the system.



## Hydraulic film catcher-cutter <sup>18</sup>

works automatically after each bale wrapping process. It provides a considerable acceleration of the wrapping process and its efficiency.



## Adjustable drawbar <sup>19</sup>

the working and transport position enables efficient collection of bales. It also facilitates moving the machine and its transport on access roads (including public roads) to the field.



## SIPMA OS 7530 MAJA

Self-loading bale wrapper SIPMA OS 7530 MAJA is an economical version of the MAJA bale wrappers, mechanically controlled by the lever distributor.

## Bale wrapping counter <sup>20</sup>

shows the current number of foil wraps, informs about the end of the bale wrapping cycle and counts number of wrapped bales.



## Lever distributor <sup>21</sup>




allow to control the wrapper from the tractor cabin.



## SIPMA OS 7531 MAJA

SIPMA OS 7531 MAJA bale wrapper is fully automated selfloading machine, attached to the tractor. Full automation of the process is provided by an advanced control system which allows pre-programming a wrapping cycle.



-  FRONT-BACK WORK
-  WRAPPING TIME 100 sec.
-  ELECTRONIC CONTROL

### FUNCTIONAL CONTROL



#### Functions of the electronic controller:

- manual or fully automatic operation of the wrapper;
- graphic visualization of current wrapping process;
- counting the number of wrapped bales;
- programming the number of foil layers (depending on the kind of film used), when reached, the machine passages automatically to next work stage;
- displaying the status of sensors (evaluation of efficiency or inefficiency of their operation) allows to replace damaged sensor, without the need to call the service;
- displaying the sum of wrapped bales since the installation of the electronic control on the wrapper;



- automatic machine setting for work and transport;
- number of table revolutions can be corrected without interrupting the wrapping process;
- possibility of pausing the automatic table wrapping mode and resuming it at the storage location;
- foreign language support.






## SIPMA OS 7650 GAJA

SIPMA OS 7531 MAJA bale wrapper is fully automated selfloading machine, attached to the tractor. Full automation of the process is provided by an advanced control system which allows pre-programming a wrapping cycle.

The wrapper is distinguished by an advanced hydraulic system, which was expanded with hydraulically adjustable drawbar. The advantage is also visible in the economics of the wrapping process itself, which saves working time by 12 hours per 1000 bales and reduces fuel consumption by 110 liters per 1000 bales.

With all of the advantages from MAJA bale wrappers series, the bale wrapping machine GAJA has strengthened construction which allows to work with bales that weigh up to 1200 kilograms and an electronic control that shows simulation of work on the display.



-  FRONT-BACK WORK
-  WRAPPING TIME 60 sec.
-  ELECTRONIC CONTROL
-  HYDRAULICALLY ADJUSTABLE DRAWBAR
-  INCREASED BALE LOAD CAPACITY UP TO 1200 kg

#### Advanced hydraulic block <sup>22</sup>

provides lower flow resistance in the hydraulic system and gives more control possibilities thanks to the option of setting the speed of all working elements of the wrapper.

#### Hydraulic system with Load-Sensing function (additional equipment)

contributes to the reduction of fuel consumption and extends the service life of the tractor's hydraulic pump.

#### Improvement the work culture of the hydraulic system

through the double reduction of average work pressure and the reduction of power consumption.

#### Oil filter contamination control

signals the need to replace it when the permissible level of its contamination is exceeded.

#### Hydraulically adjustable drawbar <sup>22</sup>

to the working and transport position enables efficient collection of bales. It also facilitates moving the machine and its transport on access roads (including public roads) to the field.

#### Sensor on the loading arm <sup>23</sup>

enables automatic initiation of the wrapping process.

#### Loading arm smooth regulation

of the speed of lifting and lowering.

#### Wrapping table smooth adjustment

of rotation speed and lifting and lowering.

#### DUO foil feeder (additional equipment)

gives the possibility of wrapping the bale with two rolls of foil at the same time, which in turn significantly reduces the machine's work cycle. This solution allows for the correct bale wrapping after its 10th rotation (for 4 layers of foil).

#### Additional film sensor <sup>24</sup>

an additional sensor of foil stops the bale wrapping process in case of foil breaks or ends.

#### Drive motor brake

makes impossible to move the table during the drive.

### Large LCD graphic display

enables a simple and intuitive way to enter operating parameters and clearly shows the condition of the wrapper sensors.

### Electronic control

ensures fully automatic operation of the machine and control of all the parameters of its operation.

### Functions of the electronic controller:

- manual or fully automatic operation of the wrapper;
- graphic visualization of current wrapping process;
- counting the number of wrapped bales;
- programming the number of foil layers (depending on the kind of film used), when reached, the machine passages automatically to next work stage;
- displaying the status of sensors (evaluation of efficiency or inefficiency of their operation) allows to replace damaged sensor, without the need to call the service;
- displaying the sum of wrapped bales since the installation of the electronic control on the wrapper;
- automatic machine setting for work and transport;
- large LCD graphic display showing the actual work parameters;
- smooth adjustment of rotation speed and lifting and lowering of the wrapping table;



- smooth regulation of the speed of lifting and lowering of the loading arm;
- number of table revolutions can be corrected without interrupting the wrapping process;
- table rotation speed can be corrected without interrupting the wrapping process;
- possibility of pausing the automatic table wrapping mode and resuming it at the storage location;
- foil feeding control - an additional sensor of foil stops the bale wrapping process in case of foil breaks or finishes;
- controlling the condition of the oil filter contamination;
- editing all parameters of the automatic mode;
- foreign language support.



MODEL		OS 7530 MAJA	OS 7531 MAJA	OS 7650 GAJA
<b>Bale dimensions</b>				
diameter	mm	1200 - 1500	1200 - 1500	1200 - 1500
width	mm	≤ 1250	≤ 1250	≤ 1250
Maximum bale weight	kg	1000	1000	1200
Foil width	mm	500 / 750	500 / 750	750
Wrapper drive		hydraulic	hydraulic	hydraulic
Bale wrapping time	sec.	~ 100	~ 100	~60
Oil demand	l/min.	≥ 20	20 - 40	20 - 90
Power demand	kW (HP)	≥ 35 (48)	≥ 35 (48)	≥ 35 (48)
<b>Equipment</b>				
bale elevator		●	●	●
universal foil feeder (500 / 750)		●	●	×
foil roll feeder		●	●	●
hydraulic foil catcher-cutter		●	●	●
electronic control		×	●	●
lever distributor		●	×	×
electric installation allowing to move on public roads		●	●	●
wide tyres 400 x 60 - 15.5		●	●	●
hydraulic system with Load-Sensing function		×	×	○
autonomous hydraulic power system		○	○	○
DUO foil feeder		×	×	○
bale marker		○	○	○
<b>Dimensions in operating position</b>				
length	mm	5760	5760	5760
width	mm	3160	3160	3160
height	mm	2210	2210	2210
<b>Dimensions in transport position</b>				
length	mm	5820	5820	5820
width	mm	2350	2350	2350
height	mm	2430	2430	2430
Weight	kg	1360	1360	1420

● – standard, ○ – additional equipment, × – unavailable






# BALE WRAPPER

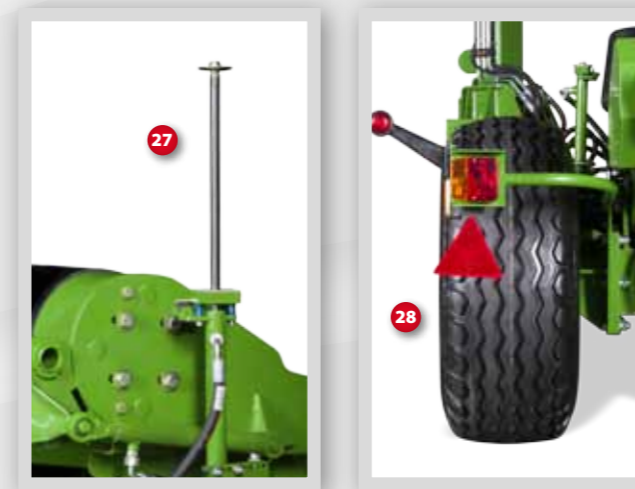
## SIPMA OR 7532 DIANA

SIPMA OR 7532 DIANA bale wrapper is fully automated self-loading, tractor-trailed machine. In addition to the conventional wrapping, it can work in the 3D system, which enables the reduction of foil consumption by about 25%. It has full automation of the entire wrapping process, which will be provided by an on-board computer with the possibility of earlier programming of the work cycle parameters.

### The wrapper gives choice between:

- maximum wrapping speed;
- minimal foil consumption.

-  FRONT-BACK WORK
-  WRAPPING TIME 50 - 65 sec.
-  ELECTRONIC CONTROL
-  HYDRAULICALLY ADJUSTABLE DRAWBAR
-  3D WRAPPING SYSTEM



### Hydraulic film catcher-cutter <sup>27</sup>

works automatically after each bale wrapping process. It provides a considerable acceleration of the wrapping process and its efficiency.

### Wide tyres <sup>28</sup>

provide the opportunity to work on wetlands and peat fields.

### Foil feeders <sup>29</sup>

allow the use of 0.75 m wide films.

### Aluminium milled foil film feeder rollers <sup>30</sup>

ensure the initial foil stretching, tightness and proper adhesion during the wrapping process.

### Tray for 6 extra rolls of foil <sup>31</sup>

enables smooth and economical operation without unnecessary downtime.

### Hydraulically adjustable drawbar <sup>32</sup>

makes it easier to relocate the machine and its transport on access roads to the field.

### Hydraulic system with Load-Sensing function

contributes to the reduction of fuel consumption and extends the service life of the tractor's hydraulic pump.



### Wrapper design

apart from conventional wrapping they allow to wrap bale in 2 extra dimensions - 3D bale wrapping. This effect is achieved by tilting the foil feeders. The result of this method of wrapping bales is foil savings of approx. 25%.

### „Front-back“ technological system <sup>25</sup>

allows work in the same direction as press works. Such solution ensure fast bale loading and foil-wrapping during ride to the next bale. Coupling with press, ensuring simultaneously baling and wrapping during one ride.

### Bale elevator <sup>26</sup>

allows for putting bales on their bottom and protects the wrapped bale from possible damage during unloading.

### Foil consumption per bale

during conventional 2D wrapping requires: approx. 60 m of foil, while during 3D wrapping amount needed lowers to approx. 45 m.



## WRAPPING TECHNIQUE

### Wrapping speed

depends on chosen technique of wrapping:

- **conventional 2D wrapping** - wrapping cycle last about 50 seconds and 8 spins of arms are enough to wrap whole bale. The 2D wrapping gives opportunity to save working time;
- **3D wrapping** - wrapping cycle last about 65 seconds, and is realized in 2 stages: circumferential wrapping with a horizontal arrangement of foil feeders and wrapping bottom of the bale with vertical arrangement of foil feeders. 3D wrapping is more laborious but allows to reduce consumption of foil approx. 25%.





## Electronic control

ensures fully automatic operation of the machine and control of all the parameters of its operation.



FUNCTIONAL CONTROL



### Functions of the electronic controller:

- manual or fully automatic operation of the wrapper;
- current monitoring of the wrapping process;
- counting the number of wrapped bales;
- measurement of device operation time [h] with an accuracy of 1 minute;
- ability to program the number of wraps (when it goes over programmed number of wraps - wrapping process stops);
- displaying the status of sensors (evaluation of efficiency or inefficiency of their operation) allows to replace damaged sensor, without the need to call the service;
- large LCD graphic display showing the actual work parameters;
- smooth adjustment of the rotational speed of the arms during operation;
- ability to program speed of lifting and lowering loading device;
- foil feeding control - an additional sensor of foil stops the bale wrapping process in case of foil breaks or finishes;
- controlling the condition of the oil filter contamination;
- displaying the sum of wrapped bales since the device were installed on the wrapper;
- displaying on-screen operating information for the entire current season.



MODEL		OR 7532 DIANA
Bale dimensions		
diameter	mm	1200 - 1500
width	mm	≤1200
Maximum bale weight	kg	1000
Foil width	mm	750
Wrapper drive		hydraulic
Bale wrapping time	sec.	50 - 65
Oil demand	l/min	≥ 35
Power demand	kW (HP)	37 (50)
Equipment		
bale elevator		●
foil feeders (750)		●
foil roll tray		●
hydraulic foil catcher-cutter		●
electronic control		●
electric installation allowing to move on public roads		●
hydraulically adjustable drawbar		●
wide tyres 340 / 55 - 16 14PR		●
hydraulic system with Load-Sensing function		●
Dimensions in operating position		
length	mm	5490
width	mm	3680
height	mm	2890
Dimensions in transport position		
length	mm	4230
width	mm	2380
height	mm	2890
Weight	kg	1550

● – standard, ○ – additional equipment, × – unavailable



2 YEARS WARRANTY



PTO SHAFT INCLUDED IN PRICE

# SIPMA

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