# KM 100-200 +60
# PACKING MACHINE

CLASS 1: VERSION KM 100-200

## PRINCIPLES OF OPERATION OF THE MACHINE IN 20 UNITS

**1. MACHINE BALANCE AND SUPPORT LEGS**

**1.1.** First, the hydraulic motors are started.

**1.2.** The machine balance and support legs are total 4 units and work as separate units with two pairs. It ensures the balance of our machine and the load on the wheels.

**1.3.** Machine is fixed in the chassis with the hydraulic dual control lever works manually.

**1.4.** Our machine is parked or parked where it will be fixed.

**2.PRODUCTION BUYING HORIZONTAL CARRIER CONVEYOR**

**2.1.** First, the hydraulic motors are operated, and then in the machine's fixed chassis conveyor is drag down horizontally through down button from the back of our machine. The 2 communication sensors receive commands.

**2.2.** The conveyor cover and wings are opened manually by the conveyor cover open button fixed in the frame of our machine. The bed conveyor of our machine is brought to the product receiving condition. Depending on the demand and the way of working, the product can be fed from the top with the help of the bucket or damper.

**3. HORIZONTAL CONVEYOR PRODUCT OUTPUT DENSITY APPARATUS**

3.1 Conveyor product output density apparatus reduces or increases the speed of the conveyor according to the density of the product.

3.2 It sends the product to the baling and pressing chamber of our machine at the set density. Automatically communicates with sensors.

**4. PRODUCT TRANSPORT VERTICAL CONVEYOR**

4.1 The vertical conveyor of our machine moves the product into the pressing and pressing chamber.

4.2 When the product density of the product pressing chamber is completed, it communicates with the PLC system and automatically activates the mesh unit (foil).

**5. PRODUCT PRESS ROOM**

5.1 Pressing chamber of our machine presses product at diameter of 650-700 mm cylinders. Press product between 450 & 500 kg.

5.2 After pressing, it communicates with the PLC system and automatically activates the file (foil) apparatus.

**6. NET AND FOIL FITTING APPARATUS**

6.1 In our machine, the file (foil) attachment and the table are manually attached with the square screw wheel.

**7. NET TRANSFER APPARATUS**
7.1 The transmitter roller automatically communicates with the sensors and PLC as per the received command provide number of layers to the files (foils).

**8. NET AND FOIL COLLECTION AND PUBLISHING**
8.1 In our machine file (foil) collection and publication moves together with the PLC transmitter communication.
8.2 When the file (foil) get command, file publication starts, and it works automatically with sensors.
8.3 After collecting the net with the PLC communication command, the file (foil) automatically inserts the cutting blade into the circuit and cuts the net.

**9. NET (FOIL) SETTING COLLECTION APPARATUS**
9.1 The file (foil) adjustment brake communicates with the PLC system.
9.2 From start to the end of the file (foil), it provides bale tightness proportionally in the same frequency.
9.3 File (foil) transmitter, file (foil) publishing and file (foil) cutting units works in coordination with each other.

**10 BALE EXECUTION CRADLE CARTS**
10.1 Our machine opens the chamber hopper cover and leaves the bale on the car with its file (foil).
10.2 The bale launcher trolley communicates with PLC sensors.
10.3 It move the bale to the stretch winding station and activates the winder arms.
10.4 After completion of the lap of stretch wrapper arms, PLC automatically gives the command to the stretch holder and the stretch cutter.

**11 STRECH KNIFE AND STRECH HOLDER**
11. 1 Stretch knife and stretch holder arms are activated by sensors for motion.
11.2 The Stretch wrapper after completion of the rounds automatically communicates with the PLC inform the bale cradle car.

**12 BALE WRAPPING UNIT**
12.1 There are two winder arms in our machine.
12.2 Stretch wrapper fixings are attached to the winder arms.
12.3 Stretch coils are manually attached to the apparatus. The bale carriage and the winding arms enable communication with the PLC and sensors.
12.4 The bale carriage package converter and the winding lever are automatically activated together with a single command, both of which are driven to the bale lowering ramp when the tours are complete and drop the bale to the rail.
12.5 There are two magnetic safety arms present and in case of living or nonliving incidence immediately stop working to protect itself and the other side.

**13 BALE DROPING RAMP**
13.1 On our machine, the bale dropping movable ramp is fixed to the chassis with the hood.
13.2 The bale reach to the cradle car is then move forward without damaging the shape of bale are ensured.
13. The meter reader sensors automatically sends the number of bales to the touch panel and makes notes in the machine's memory. Thus, the product is ready for shipment in case of bale.

**14 SCRAPER BYPASS BASES**

14.1 The base scraper recovers the dropped part of the product regain through the bypass into the pressing chamber.
14.2 The products gained are pressed into bale again.
14.3 Horizontal conveyor, vertical conveyor, press room, file transfer, the bale transporter car works in harmony with 5 stations by communicating automatically with PLC and sensors.

**15 PARALLEL SEQUENCE VALVE UNIT**

15.1 There are 10 row valve plates, 10 valves and locks on our machine.
15.2 These valves relate to PLC, panel board and electric motor hydraulic pump.
15.3 Conveyor cover, conveyor loader, file (foil) printing, file (foil) spreader, file (foil) brake, mesh blade, bale carrier car, package convertor, machine balance leg, gives a total of 10 mechanisms.

**16 SEPARATELY VALVE UNIT**

16.1 Dual valve plate, two valves and locks are mounted in the machines.
16.2 These valves are connected to the PLC panel board, electric motor hydraulic pump.
16.3 The bale press compression chamber and the winding actuator hydro drive motor give a movement to total of two mechanisms.

**17 HYDRAULIC OIL TANKS**

17.1 All hydraulic oil pressure equipment of our machine activates with electric motor mounted pump.
17.2 Two oil cooler radiators prevent oil from heating.
17.3 The recycling unit is installed.
17.4 Oil degree and indicator are available.

**18 MACHINE WALKING AXLES**

18.1 In our machine, there are 2 cradled axles movable and 4 are fixed.
18.2 When the road condition is ready, the drum brake system in the wheel is operated in parallel with the intermediate hose and the brake.
18.3 The maneuverability of the machine is improved with the crib axle.
18.4 Pits, cascades and rainfall were beneficial.

**19 MACHINE CONSTANT CONTROL PANEL**

19.1 Our machine's fixed control panel is equipped with the latest technology.
19.2 There is one playable, adjustable, touch control panel.
19.3 All equipment are interrupted by this panel.
19.4 The machine has screened malfunctioning software which reports faults with text and alarm.
19.5 The time, lap and speed setting on the machine are adjusted from the touch panel.

**20. ON CUSTOMERS REQUEST FAULT NOTIFICATION SYSTEM**

20.1 In case of electrical, electronic, PNS and in other hydraulic systems failures, the KOMSILAJ technical service unit via GPRS mobile sms no matter where our machine is working, either domestic or international can be accessed. In this way an emergency fault can be settled.
20.2 The operator will also be notified via mobile phone sms in case of machine malfunctioning.
20.3 If the operator does not intervene because of running machine, it also sends the information to our fault notification system factory service team.
20.4 The operator is warned by our operator service and the failure is prevented from growing.

## AFTER-SALE SERVICES FOR KM 100-200 +60 MACHINE

1) After sale, our machine has 2 years mechanical parts guaranteed.

2) No fee is charged for the parts used.

3) After the sale for a period of 10 years (with a fee) we have spare parts supply and service guarantee.

4) If there is any fault in the technical service team which cannot intervene from the center, our technical team must intervene and correct the malfunction.

5) Kom Silaj Makine (company name) technical service team 12 months of the year, 7/24 serves.

6) All materials used in our machine are available in our stock.

7) These technical services are provided through another separate company named as **Komsilaj Farm Machinery and Spare Parts ltd.şti** and serves as 24/7.

8) In addition, if the customers want to buy another machine bigger than the previous one, we will get back the used machine back and will serve the customer with new one but with the decreasing cost of 1 Euro per ton.

# OTHER DETAILS OF THE MACHINE

| | | | |
|---|---|---|---|
| **Bale Width** | 650×700 mm | **Number of tyre** | 4 |
| **Bale Range** | 185-210 kg | **Weight of the machine** | 6000 kg |
| **Required electric power** | 38 KW | **Length of the running machine** | 12000 mm |
| **Driving Force** | Electricity | **Width of the running machine** | 3500 mm |
| **Stretch size** | 250 mm | **Height of the running machine** | 3260 mm |
| **Stretch Wrapping Unit** | 2 Piece | **Machine road length** | 9700 mm |
| **Stretch Wrapping Control** | Automatic | **Machine road width** | 3000 mm |
| **Size of the String Bag** | 1050-1100 mm | **Machine road height** | 3610 mm |
| **Check of the String Bag** | Automatic | **Vehicle connection** | Single point draught |
| **Machine Control** | Electro Automation | **Country of origion** | Turkey |
| **Pressing System** | Rubber bands | **Packing materials** | Corn silage, beet pulp, Fruit pulp and other rough grains |
| **Number of Axles** | Cradle system | | |
| **Baling Capacity** | 50-55 bale/hour | | |

## KM 200 + 60 TECHNICAL DETAILS

- Brand: Komsilaj
- Model: km 200 + 60 (2020)
- Type: towable
- Drive system: electric
- Package size: 650 x 700 mm
- Capacity: 55 bale / hours (1 bale at 55 seconds approx)
- Required tractor power: No
- Bale weight: 185 - 210 kg
- Pressing system: rubber bands
- Package material: file - stretch
- Mobile: yes
- PTO transfer: no
- Automatic lubrication: yes
- Automatic hydraulic field and wrapping yes
- Conveyor: front conveyor and rear conveyor (double conveyor) rear Conveyor Provides Ear Use As 0.
- **Machinery weight is 6000 kg** we have been produced with the best sheet and profile without quality.
- 35-40 between pallet is used for better and serial packaging of the material.
- Used valves are Italian not outside far East.
- For more better and serial pressing of the materials about 35-40 transfer plates are used
- Bearing, chain, gear, lock v.s. parts are completely Kom brand products (we also supply our customers with our spare parts after sales.)