



USER MANUEL

1. MACHINE BALANCE AND SUPPORT LEGS

1.1. First, start the hydraulic motors.

1.2. The machine has a total of four balance and support legs, operating in two independent pairs. These legs ensure proper balance of the machine and evenly distribute the load on the wheels.

1.3. The machine is secured to the chassis using a hydraulic dual-control lever, which is operated manually.

1.4. The machine should be parked and stabilized at the designated operating or parking location.

2. PRODUCTION – HORIZONTAL CARRIER CONVEYOR

2.1. First, activate the hydraulic motors. Then, using the “*Down*” button located at the rear of the machine, lower the conveyor horizontally within the fixed chassis. The two communication sensors receive and process the corresponding commands.

2.2. The conveyor cover and side wings are opened manually by pressing the *conveyor cover open* button located on the machine frame. Once opened, the bed conveyor is positioned for product intake. Depending on the operating requirements, the product can be fed from above using either a bucket or a damper.

3. HORIZONTAL CONVEYOR PRODUCT OUTPUT DENSITY APPARATUS

3.1. The conveyor product output density apparatus automatically adjusts the conveyor speed according to the density of the material being processed.

3.2. It delivers the material to the baling and pressing chamber at the preset density and communicates automatically with the sensors for consistent operation.

4. PRODUCT TRANSPORT VERTICAL CONVEYOR

4.1. The vertical conveyor transfers the material from the horizontal conveyor into the pressing chamber.



4.2. Once the desired product density is reached in the pressing chamber, the system communicates with the PLC and automatically activates the film and foil wrapping units.

5. PRODUCT PRESSING CHAMBER

5.1. The pressing chamber compresses the material into cylindrical bales with diameters of 100 cm or 120 cm. The pressing capacity ranges between **1000 kg and 1200 kg** depending on the material type.

5.2. After the pressing process is completed, the system communicates with the PLC to automatically activate the film (foil) wrapping apparatus.

6. FILM AND FOIL FITTING APPARATUS

6.1. In our machine, the film (foil) fitting table allows the operator to manually attach the film (foil) using a square screw system.

7. FILM TRANSFER APPARATUS

7.1. The film (foil) transfer unit automatically communicates with the sensors and the PLC system. Based on the received command, it determines and applies the required number of film (foil) layers to each bale.

8. FILM (FOIL) COLLECTION AND DISPENSING

8.1. The film (foil) collection and dispensing functions operate together through PLC and sensor communication. When a command is received via the sensors, the film (foil) dispensing process begins automatically.

8.2. After the wrapping cycle is completed, the sensors automatically trigger the system to collect and rewind the film (foil).

8.3. Once the wrapping process is finished, the PLC sends a command to activate the cutting blade, which automatically cuts the film (foil) cleanly.

9. FILM AND FOIL TENSION ADJUSTMENT APPARATUS

9.1. The film (foil) tension adjustment brake operates in coordination with the PLC system.

9.2. From start to finish, it ensures proportional and consistent bale tightness at a uniform frequency.



9.3. The film (foil) transfer, dispensing, and cutting units work in perfect synchronization for smooth operation.

10. BALE DISCHARGE CRADLE CAR

10.1. The machine opens the chamber hopper cover and releases the wrapped bale onto the cradle car.

10.2. The bale discharge trolley communicates with PLC sensors for positioning and control.

10.3. It transfers the bale to the stretch wrapping station and activates the wrapping arms.

10.4. After the wrapping arms complete their rotation, the PLC automatically sends a command to the stretch holder and stretch cutter to complete the wrapping cycle.

11. STRETCH KNIFE AND STRETCH HOLDER

11.1. The stretch knife and stretch holder arms are activated by sensors for precise movement.

11.2. Once the stretch wrapping process is completed, the system communicates with the PLC to inform the bale cradle car that the wrapping cycle is finished.

12. BALE WRAPPING UNIT

12.1. The machine is equipped with two winding arms.

12.2. Stretch film holders are mounted on these winding arms.

12.3. The stretch film coils are manually installed on the apparatus. The bale carriage and winding arms communicate automatically with the PLC and sensors.

12.4. The bale carriage and the winding arms operate together with a single command. After the wrapping cycles are completed, both units move the bale toward the discharge ramp.

12.5. Two magnetic safety arms are installed to ensure operational safety. In the event of any obstruction or abnormal activity (human or object interference), the machine immediately stops to prevent damage or injury.

13. BALE DROPPING RAMP

13.1. The bale dropping ramp is a movable unit securely mounted to the machine chassis with a protective hood.

13.2. The bale is transferred smoothly from the cradle car to the ramp without damaging its shape.

13.3. The meter-reading sensors automatically record the number of produced bales and send the data



to the touch panel, where it is stored in the machine's memory. This ensures accurate tracking and preparation of the bales for shipment.

14. SCRAPER BYPASS BASES

14.1. The base scraper recovers any dropped or residual product and redirects it through the bypass system back into the pressing chamber.

14.2. The recovered material is then repressed into a new bale.

14.3. The horizontal conveyor, vertical conveyor, press chamber, film (foil) transfer unit, and bale transport car operate in coordination across five stations, communicating automatically through the PLC and sensors.

15. PARALLEL SEQUENCE VALVE UNIT

15.1. The machine is equipped with 10 valve plates, each fitted with a valve and a lock.

15.2. These valves are connected to the PLC, control panel, and the electric motor-driven hydraulic pump.

15.3. The 10 valves control the following mechanisms:

- Conveyor cover
- Conveyor loader
- Film (foil) application
- Film (foil) spreader
- Film (foil) brake
- Mesh cutter
- Bale transport car
- Package converter
- Machine balance legs
- Overall hydraulic operation control

16. SEPARATE VALVE UNIT

16.1. The machine includes a dual valve plate assembly with two valves and locks.

16.2. These are connected to the PLC panel, control board, and the electric motor hydraulic pump.



16.3. This system provides hydraulic motion to two key mechanisms — the bale press compression chamber and the winding actuator hydro drive motor.

17. HYDRAULIC OIL TANK

17.1. All hydraulic pressure components in the machine are powered by an electric motor-driven pump.

17.2. Two oil cooler radiators are integrated to prevent the hydraulic oil from overheating.

17.3. The system includes an oil recycling and filtration unit for continuous operation.

17.4. An oil temperature gauge and level indicator are installed for monitoring and safety.

18. MACHINE WALKING AXLE

18.1. The machine is equipped with two movable cradled axles and four fixed axles.

18.2. When road conditions permit, the drum brake system on the wheels operates in coordination with the central brake and intermediate hoses for safe transport.

18.3. The machine's manoeuvrability is enhanced by the cradled axle design.

18.4. This system provides stable performance even on uneven terrain, slopes, and during rainfall.

19. MACHINE FIXED CONTROL PANEL

19.1. The fixed control panel of the machine is designed with the latest technology for reliability and ease of use.

19.2. It features a single adjustable touch-screen control panel.

19.3. All machine operations are managed through this central control unit.

19.4. The system includes fault-detection software that displays text-based alerts and audible alarms for any malfunction.

19.5. Operating parameters such as time, cycle count, and speed settings can be adjusted directly via the touch-screen panel.

20. CUSTOMER-REQUEST FAULT NOTIFICATION SYSTEM

20.1. In case of electrical, electronic, pneumatic, or hydraulic system failures, the **KOMSILAJ** technical service team can be accessed remotely via GPRS or mobile SMS, regardless of the machine's location—domestic or international. This allows immediate fault diagnosis and resolution.

20.2. The operator is also notified by SMS in the event of any malfunction.

20.3. If the operator is unable to intervene while the machine is running, the system automatically sends the fault information to the factory service team.

20.4. The operator is then contacted by the KOMSILAJ service department to prevent the issue from escalating and to ensure rapid support.



AFTER-SALES SERVICES FOR KM 1000–1200 +60 MACHINE

1. Our machines are covered by a **2-year warranty** for all mechanical parts.
2. During the warranty period, **no fees are charged** for any replacement parts used under warranty conditions.
3. We provide a **10-year spare parts supply and service guarantee** (subject to standard service fees) after the end of the warranty period.
4. In the event of a malfunction that cannot be resolved remotely by our central technical service team, our on-site technical staff will visit and repair the issue directly.
5. The **Kom Silaj Makine** technical service team operates **24/7, all year round**, ensuring continuous customer support.
6. All components and materials used in our machines are kept in stock to ensure **fast replacement and uninterrupted service**.
7. These technical services are provided through our dedicated partner company, **Komsilaj Farm Machinery and Spare Parts Ltd. Şti.**, which also operates **24/7**.
8. Additionally, if a customer wishes to purchase a larger or upgraded machine, we offer a **buy-back program**. The previously used machine is accepted as a trade-in, with a **depreciation rate of 1 Euro per ton**.

OTHER DETAILS OF THE MACHINE

Bale Width	1100×1200 mm	Number of tyre	4
Bale Range	950-1100 kg	Weight of the machine	14500 kg
Required electric power	60 KW	Length of the running machine	14000 mm
Driving Force	Electricity	Width of the running machine	3500 mm
Stretch size	750 mm	Height of the running machine	4000 mm
Stretch Wrapping Unit	2 Piece	Machine road length	11000 mm
Stretch Wrapping Control	Automatic	Machine road width	3500 mm
Size of the String Bag	1230-1250 mm	Machine road height	4090 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
Baling Capacity	50-55 bale/hour		



KM 1000 +60 TECHNICAL DETAILS

- Brand: Komsilaj
 - Model: km 1000 + 60 (2019)
 - Type: towed
 - Drive system: electric
 - Package size: 1200 x 1200 mm
 - Capacity: 50 bale / hour
 - Required tractor power: No
 - Bale weight: 1000 - 1200 kg
 - Pressing system: rubber band
 - Package material: file – stretch, folyo
 - Mobile: yes
 - PTO transfer: no
 - Automatic lubrication: yes
 - Automatic hydraulic field and wrapping Yes
- The machine features a **double conveyor system** consisting of a **front conveyor** and a **rear conveyor**, ensuring smooth and efficient material transfer.
 - The total machine weight is **14,500 kg**, manufactured using **high-quality sheet metal and structural profiles** for maximum durability and stability.
 - Approximately **35–40 transfer pallets** are used to achieve faster and more consistent material packaging.
 - The hydraulic **valves are Italian-made**, ensuring reliability and long service life — no components are sourced from the Far East.
 - The product comes with a **2-year warranty** covering all mechanical parts.
 - To ensure optimal and uniform compression of materials, the system utilizes **35–40 transfer plates** during pressing.
 - All key components — **bearings, chains, gears, and locks** — are genuine **KOM brand products**. We also provide full **after-sales spare parts support** to our customers.