

PALESSE GS812

Series III B
with engine technology



Mercedes-Benz



GOMSEL MASH

PALESSE GS812 *Series III B*

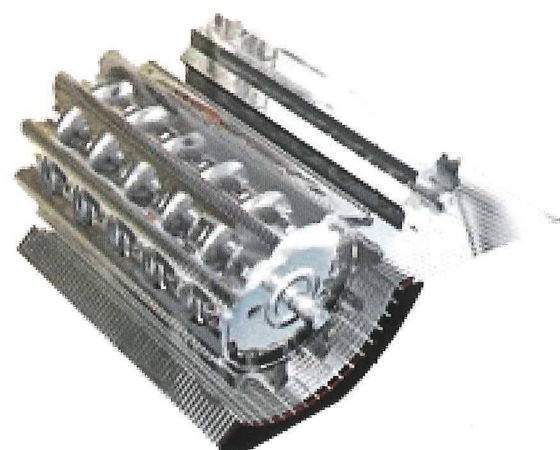


Middle class harvester PALESSE GS812 is used for wide range of application. Compact and maneuverable harvester is intended for capacity at grain mass not less than 8 kg/s and able to produce not less than 12 tons per hour of bunker grain. PALESSE GS812 has classical design: one threshing drum, bitter and straw-shaker. Such scheme, except technological reliability, provides universality of application and easy service. Modern comfortable cabin, components from the best manufacturers and devices of electronic control complete advantages of classical design.

PALESSE GS812 reaches maximum level of efficiency at fields with yield of cereals up to 40 centner/hectare. Headers with capturing width of 5 m, 6 m or 7 m ensure a consistently neat and straight cut.

The 'Big Drum' threshing mechanism, with its 800 mm diameter drum in conditions of normal humidity and a moderate share of straw and produces excellent results with high harvester throughput.

The distance between the drum and concave required for optimum threshing is adjustable through a mechanism controlled electronically from the cabin.



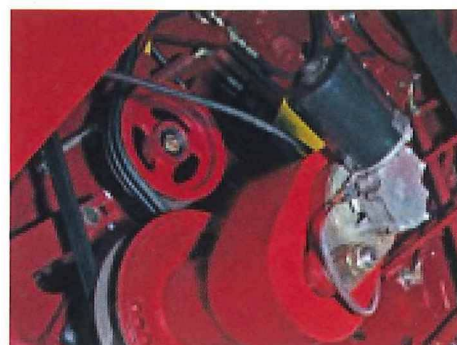
... the best from the classic



Optimal distances between the height of the stages and the intense movement of the shaker ensures almost complete separation of the remaining grain from the chaff.



The three stage grain purifying system, with a sieve area of almost 4 m² is an optimal solution for a mid-class harvester.



Electrical purging fan speed control from the cabin: optimal settings for various plant crops and harvest conditions.

If it is necessary to retain the straw for later use, the harvester switches into a swath-laying mode. In this mode, the straw is stored in swaths suitable for storage.



The straw chopper with its increased number of blades thoroughly breaks down the straw and spreads it evenly over the field in the specified width as a fertilizer, creating a good basis for future crops.

The length of the harvester's unloading auger, combined with the 7 m wide grain header, ensures easy offloading of grain.

The volume of the harvester's grain tank is 5.5 m³.

The design (shape) of the grain tank, when used with a vibrator, facilitates the rapid unloading of grain, regardless of the grain's moisture level. These solutions can really pay off at harvest time and increase the productivity of the harvester during shift work.



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The large cabin with panoramic glass windows is equipped with air-conditioning (heating on request), a fully adjustable working chair for the operator and a comfortable reclining seat for the instructor - it takes working comfort to a high level.



The speed control handle fits easily and comfortably into the operator's hand and it includes adjustable palm rest. The handle is placed on the auxiliary counter and it simultaneously controls the seat so that it stays within easy reach. It permits single handed control functions necessary for quick decision-making - forward and reverse, speed, position and speed of the header drum, position of the conveyor of feeding channel and momentary disconnection of its drive.



The cabin's comfort-focused design includes a large cooling compartment for storing food and drinks;



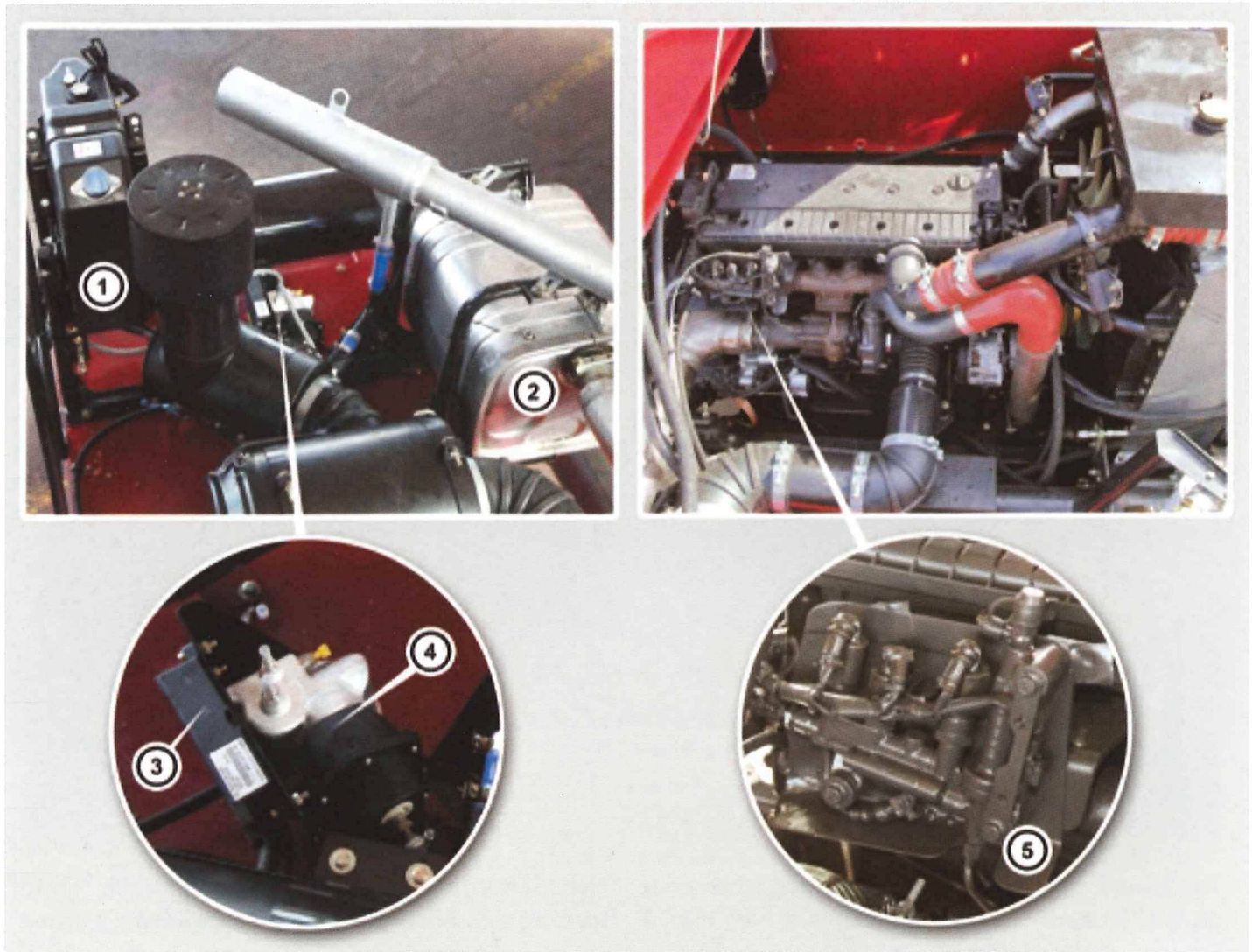
Once switched on, the on-board computer will automatically check the sensors and mechanisms to ensure reliability and it has circuit diagrams with circuit numbers and advice on troubleshooting. Recommendations for adjusting the operating mechanism (threshing gap, threshing drum speed, cleaning fan speed, the degree of opening of the concave shutters) are given by the computer based on the harvested crop or previously memorized settings.

The adjustable steering column and steering wheel with handle.



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ECOLOGICAL STAGE IIIB ENGINE



The BlueTec system for the neutralization of exhaust gases has the following key components:

- ① AdBlue reagent tank
- ② catalysts
- ③ exhaust gas neutralization control system
- ④ pump and filtration unit
- ⑤ fuel delivery system

The OM 926 LA drive unit with an output of 175 kW, which comes from Daimler AG, is a modern, fuel efficient engine with an electronic control system. The electronic units regulate the beginning and length of the fuel injection process along with the quantity of fuel entering the combustion chamber. This engine is notably different from previous engines in that it has extremely low emissions of harmful substances through the use of its BlueTec system for the neutralization of exhaust gases. The BlueTec system works as follows: the tank (1) holds a special active AdBlue reagent, which is added to the fuel delivery system (5) using the pump and filtration unit (4). From here, it is moved to the injection tract, where it mixes with the exhaust gases and purifies them. Next, the mixture goes through a second catalyst-based cleaning cycle (2) before getting released into the environment. The entire system is run by an electronic control unit (3).

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The headers of the PALESSE harvesters use the best, world-class cutting technology to ensure the stable and efficient operation of the headers regardless of the crops being harvested and the harvesting conditions.



The Schumacher planetary gearbox, which is used to drive the header assembly, ensures a high cutting frequency (1108 strokes per minute) a smooth operation and minimal wear, thus increasing productivity.

Harvesting of rapeseed

The usage of equipment for harvesting rape increases the header's effective area. The active side dividers, with finger-free cutting decks, can effectively cut harvested rape at the edge of the line. In combination with rape deflectors, this solution reduces rapeseed harvest losses to a minimum.

The Schumacher cutting system with solid spot-welded fingers, with upper and lower cutting edges and a system of alternating segments, with a notch up / down design, provides exceptionally clean cutting along with being self-cleaning.

Harvesting of corn

The harvesting of corn becomes an easy task through the use of special equipment sets. Cobs are gently separated and passed for threshing and the stalks finely chopped. The field is left completely ready for plowing.



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TECHNICAL CHARACTERISTICS

| Cutting Part | |
|--------------------------------------------------------------------------------------|-------------------------|
| Super Cut header with 5 m capturing width | • |
| Header with 6; 7 m capturing width | o |
| Cutting device of the header | |
| Schumacher Planetary gearbox | • |
| Schumacher cutting system with alternating segments with notches upwards / downwards | • |
| The speed of movement of the knives (strokes / min.) | 1108 |
| The system of longitudinal and transverse tracing of field contour | • |
| Straw lifters | • |
| Electric control from the cabin of header drum variator | • |
| Trolley for transporting of header | • |
| Fingerless cutting device to work on the reclaimed peat fields | o |
| Conveyor of feeding channel | |
| Hydraulic reverse run of conveyor of feeding channel | • |
| Threshing System and Straw-Shaker | |
| Thresher width (mm) | 1200 |
| Stone trap | • |
| Big Drum threshing system | • |
| Threshing drum diameter | 800 |
| Threshing drum speed s-1 (rpm) | 8.51-14.5 (510.6-870.0) |
| Automatic tensioning of drum drive variator belt | • |
| Deceleration reducer | o |
| Separating surface area of concave (m ²) | 1.096 |
| Angle of rasp bars. stages | 130 + 6 |
| Electronic control of the concave gap size from the cabin | • |
| Accelerated descend of the concave | • |
| Number of shaker keys | 4 |
| Shaker separation area. (m ²) | 4.92 |
| Total separation area (concave + shaker) (m ²) | 6.016 |
| Cleaning | |
| Sieves cleaning area (m ²) | 3.86 |
| Number of stages, pieces | 3 |
| Fan speed electronic control from cabin | • |
| Autonomous rotor after-threshing equipment | • |
| Grain Tank | |
| Tank volume (m ³) | 5.5 |
| Productivity of discharge equipment (l / s) | 50 |
| Minimum unloading height (height of the end of the unloading auger) (m) | 3.9 |
| Straw Chopper | |
| Straw crushing with spreading | • |
| Saving straw into swaths | • |

| Cabin | |
|---------------------------------------------------------------------------------------------------|-----------------|
| Comfortable double-seater soundproof cabin protected against vibrations, model | |
| Comfort Max | • |
| Air conditioning / fan | • |
| Heating | • |
| Multifunction control lever | • |
| Control and information system -based on-board computer with YC System Control monitor | • |
| Computer system Excav Crop Adjust | • |
| Chassis | |
| Number of wheels: controlled / powered | 2/2 |
| Steering drive axle | 0.16/0.24 |
| Tire pressure during use (Mpa) | 2830/3080 |
| Wheels gauge: steered/powered (mm) | 3366 |
| Base (mm) | 300 |
| Hydraulic System | |
| Chassis hydraulic supply | |
| Hydraulic transmission of steering wheel control | |
| Engine | |
| Manufacturer | Mercedes-Benz |
| Brand | OM 926 LA |
| Rated engine power, kW (hp) | 175 (238) |
| Fuel tank capacity (l) | 500 |
| Overall Dimensions and Weight | |
| Length / width / height with header in working position (mm) | 10500/6500/4500 |
| Harvester weight with header (without the trolley) (kg) | 13,580 |
| Matching Adapters | |
| Pick-up with a cutting width of 3.4 m | o |
| Equipment for harvesting oilseed rape with a cutting width of 5 m | o |
| Complete equipment for corn (grain) harvesting with header with capturing width of 4.2 m (6 rows) | o |

- Standard equipment
- o Optional equipment

The products used for the assembly of PALESSE GS12 harvesters are obtained from leading manufacturers, which further increases the reliability and adaptability of the machines.

- planetary reducers, header fingers and other components of the header assembly - Schumacher, Germany
- SKF bearings, Sweden
- Pneumatic-hydraulic accumulators HYDAC, Germany
- Hydraulic control valves and hydraulic blocks AIDRO, Italy
- Belts OPTIBELT, Germany
- Oil filters and filter cartridges Stauff, Germany and SOFIMA, Italy
- Electromechanical parts TOTTO LINEAR, Sweden

We constantly strive to raise the technical level of our production.

In this context, our company reserves the right to modify the design of its machines and their technical characteristics.