



AYERDA

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Combine

M112

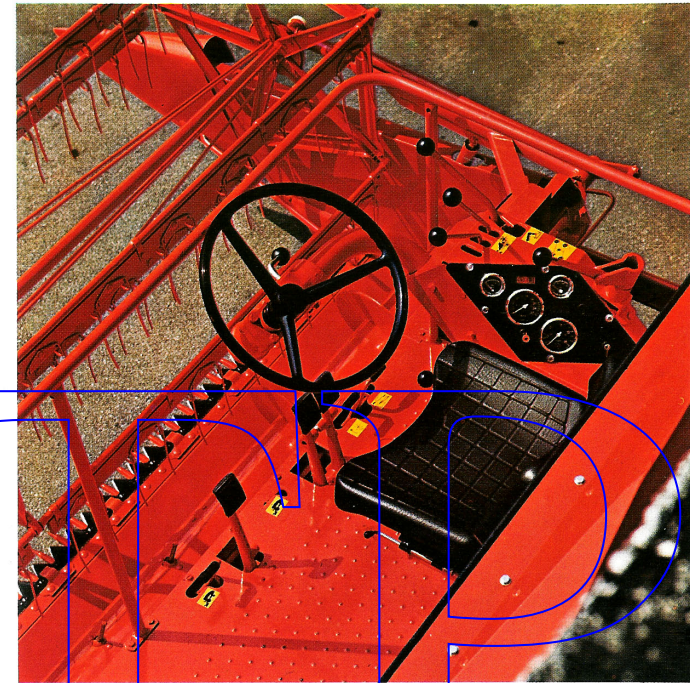
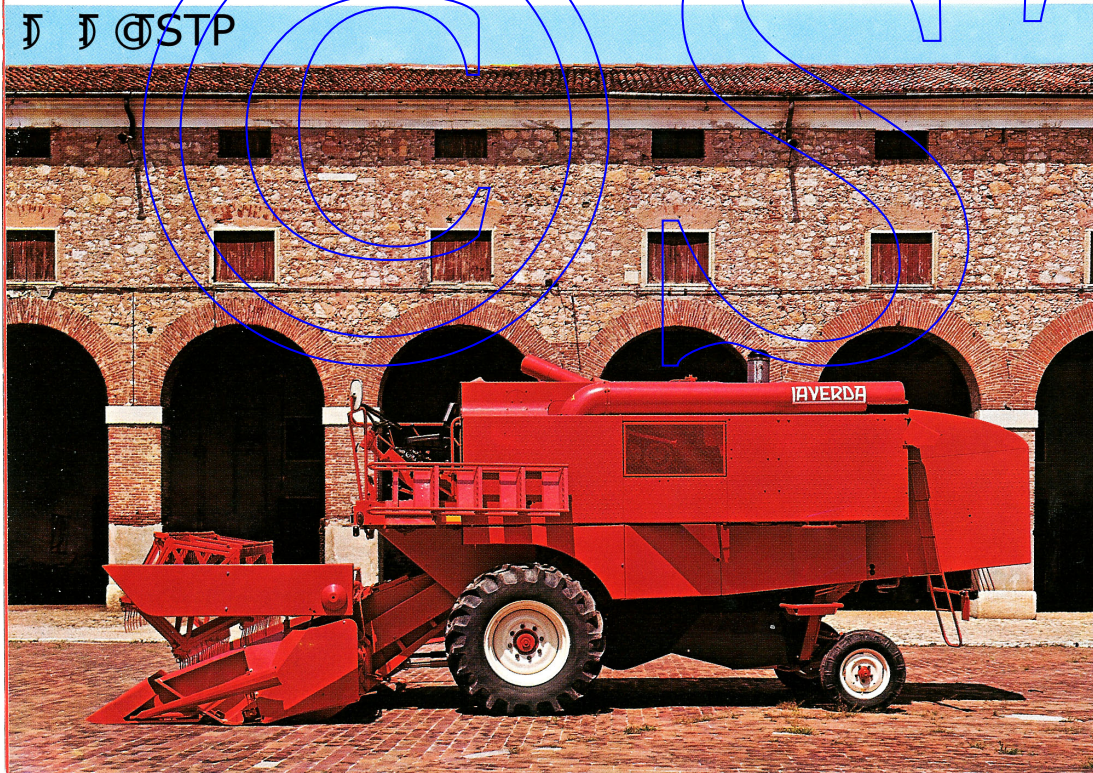
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The **M 112** is the third model introduced in the new line of LAVERDA combines. The M 112 is distinguished by its advanced technical features and its modern concept.

Its advantages, such as high hourly output, reliability, ease of handling, its suitability to work under any farming conditions and the cleanliness of the sample produced are well known in the larger LAVERDA combines.

A feature in common with the M 132 and M 152 models is the provision of safety guards for the external mechanisms which completely comply with the international safety regulations.

Last but not least, there are a lot of parts common to and interchangeable with the two bigger models. This means better availability of spare parts and maximum reliability since the interchangeable parts have been designed for, and proved in use, in the bigger combines.

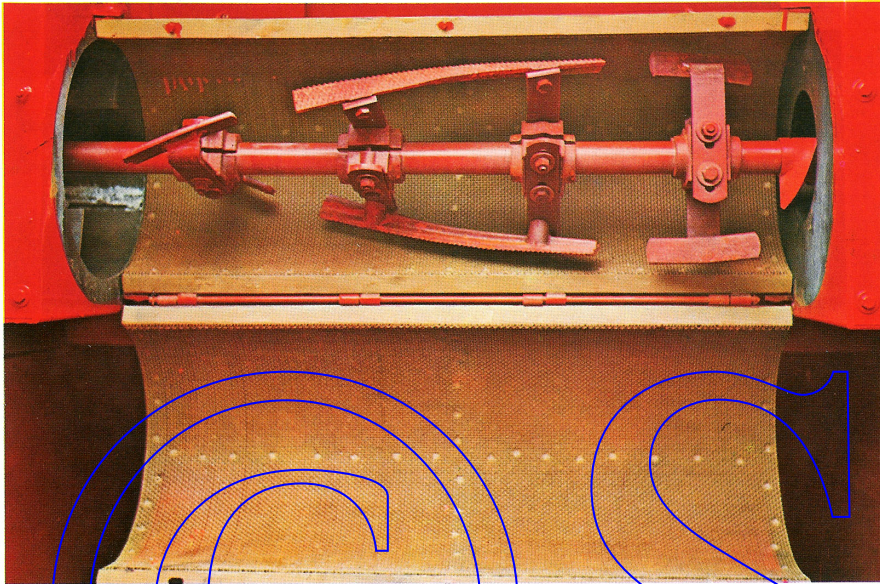


The close and steady collaboration between engineering designers and specialist stylists has resulted in a streamlined and pleasant appearance similar to the M 132 model.

The driver's seat is in a central position with full visibility over the whole cutting table. All control levers are situated in the most practical position, with a complete instrument panel permitting constant control of the machine. The seat has elastic suspension to suit the driver's weight and is vertically and horizontally adjustable. The position and angle of the steering wheel are also adjustable.

A centrifugal blower, which acts over the upper part of the cutting table, blows dust away from the operator.

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The six-cylinder engine produces adequate power, even when used in the most arduous conditions, giving long life and consistent performance of the combine. The rotary type radiator cleaner ensures high efficiency and greatly simplifies maintenance. The radiator, in compliance with up-to-date techniques, is equipped with an air venting device and is of adequate size to ensure proper cooling action even under highest temperatures.

The transmission from the engine to the threshing mechanism is obtained by means of a 3 -section powerband belt which transmits all engine power and requires very little space. Transmission to the various mechanisms is by V-belts and is easily controllable, and, for the most important mechanisms, there are torque limiting devices. The wheel transmission includes a speed variator driven by two belts and controlled by a double acting hydraulic cylinder, a single plate dry clutch, 3 forward and 1 reverse speeds, a 4 planet gear differential with hydraulic brakes, removable half shafts and reducers with gears running in an oil bath. The hydraulic equipment is operated by a double pump which ensures two fully independent circuits. The electrical equipment is complete and complies with the European Standard Provisions.



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The capacity of the big grain tank (75 bushels) can, on demand, be increased by means of extensions to 100 bushels. The grain tank is filled by an auger which, from a high position, feeds the grain without damaging it to the centre, thus ensuring complete filling of the tank. The location of the grain tank has been designed to ensure an even weight on both wheels. The swing of the unloading auger is mechanically controlled from the driver's seat and, when folded back, it perfectly suits the shape of the combine. The big capacity of the unloading auger facilitates emptying of the grain tank in a very short time. The unloading spout is 3.18 m (10' 6") above ground and enables loading into trailers with tall side boards to go on during operation.

The M 112 with maize head is a machine capable of very high daily outputs. The threshing mechanisms, the separation equipment and all pass throughs have been designed after consideration of the characteristics of maize crops such as the humidity content of kernels, the specific weight and the high yield. The M 112 with MAIS-C head with minor changes, can also be used in obtaining

maize paste "MAIS-MIX" as this combination has now been shown to be of great interest for zootechnical farms.

Also a proper set of sieves is available to obtain excellent results in harvesting alfalfa seeds, meadow clover, rape and other small seed crops.

The M 112 is also an exceptional rice harvesting machine thanks to its big throughput capacity, to the thorough threshing obtained and also for its ability to operate on any rice field.

To convert the machine from "grain" to "rice" or vice-versa is simple and quick. The sturdiness of all components ensures long life of the machine with a very low rate of depreciation.



Specifications

CUTTING MECHANISM

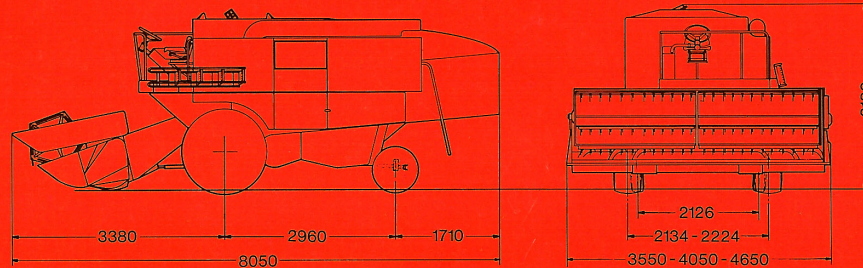
Cutting width 3.10 m (10ft), 3.60 m (12ft), 4.20 m (14ft). Cutting height min. 0.04 m, max. 1.00 m, capability to cut 0.25 m below wheels level. Height of cutting table controlled by two hydraulic cylinders with blocking device. Hydropneumatic dampers. Pick up reel with five tine bars. Lift, fore and aft movement and speed variator of pick up reel hydraulically controlled; reel speed 15 to 57 rpm. Cutting table with quick release system.

THRESHING MECHANISM

Drum with 8 rasp bars: width 1040 mm, diameter 600 mm. Mechanical speed variator driven by V-belt. Concave with 11 bars adjustable from driver's place, with 2 filler plates adjustable through an appropriate side door. Tailings return feed in front of drum.

CLEANING MECHANISM

Four straw walkers at tridimensional action; length 3.56 m with drawer type extension of 0.16 m; cleaning area 3.71 + 0.17 sq.m. Clossz or Petersen type adjustable upper sieve with comb type extension (adjustable extension is standard), area 1.65 sq.m. Interchangeable lower screens with fixed size holes or adjustable lower sieve on request: area 1.24 sq.m.; total area of 1st cleaning system 2.89 sq.m. Big capacity fan with speed variator.



On request

De-awner and secondary cleaner; bar type de-awner with double flow; selector with two screens, area 0.95 sq.m. Total area of 1st and 2nd cleaning units 3.84 sq.m.

GRAIN TANK

The feed auger delivers grain to center of tank and in high position. Capacity of grain tank 2650 l. Grain tank capacity with extension (optional) 3500 l. Mechanical swing type unloading auger. Height of discharge spout 3.18 m.

ENGINE

Diesel six cylinders. Power output (DIN 70020) 95 CV - 70 kW at 2200 rpm. Rotary type filter for radiator. Suction air filter of oil bath type.

TRANSMISSION

to threshing mechanism by a three section Powerband belt type B; to traction mechanism by means of V-belts with hydraulically controlled double acting variator. Single plate dry clutch. 3 forward and one reverse speeds. Hydraulically controlled disc brakes. Removable and interchangeable half shafts. Final reducer gears in oil bath. Front tyres 16.9/14-26 (on request 18.4/15-26). Rear tyres 8.50-12 (on request 7.50-16). Ground speed on normal wheels 1.4 to 18.6 Km/h (with oversize tyres 1.5 to 19.8 Km/h).

DRIVER'S PLACE

in central position. Hydrostatic steering. Steering wheel with

adjustable height and angle. Instrument panel complete with: revs counter for drum, speedometer, temp. gauge for coolant, gauge for engine lubricant, generator charge warning light, fuel reserve light, direction indicators light for combine and trailer. All controls within easy reach of driver. Seat with adjustable suspension. Vertical and horizontal adjustment of seat.

ELECTRICAL EQUIPMENT

12 Volt - 500 Watt alternator. 148 Ah battery. Horn. Switch which actuates horn when emergency brake is applied and clutch is engaged. All lights in accordance with the Standard European traffic provisions.

HYDRAULIC EQUIPMENT

with double pump and two completely separate circuits (one circuit for hydrosteering only). 5-section hydraulic distributor.

DIMENSIONS AND WEIGHTS

Overall length with cutting table and without mobile dividers 8.05 m. Overall length without cutting table 6.28 m. Overall height 3.18 m. Overall height with grain tank extensions 3.27 m. Wheelbase 2.96 m. Front tread 2.13 m (with oversize tyres 2.22 m). Rear tread 2.13 m. Weight with 3.10 m table 6200 Kg with 3.60 m table 6250 Kg with 4.20 m table 6400 Kg.

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