

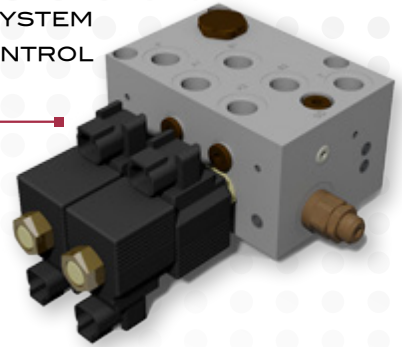
SELF LEVELING HARVESTING HEADER CONTROL SYSTEM

2 FUNCTIONS PROPORTIONAL VALVE SYSTEM
FOR BLADE HEIGHT CONTROL

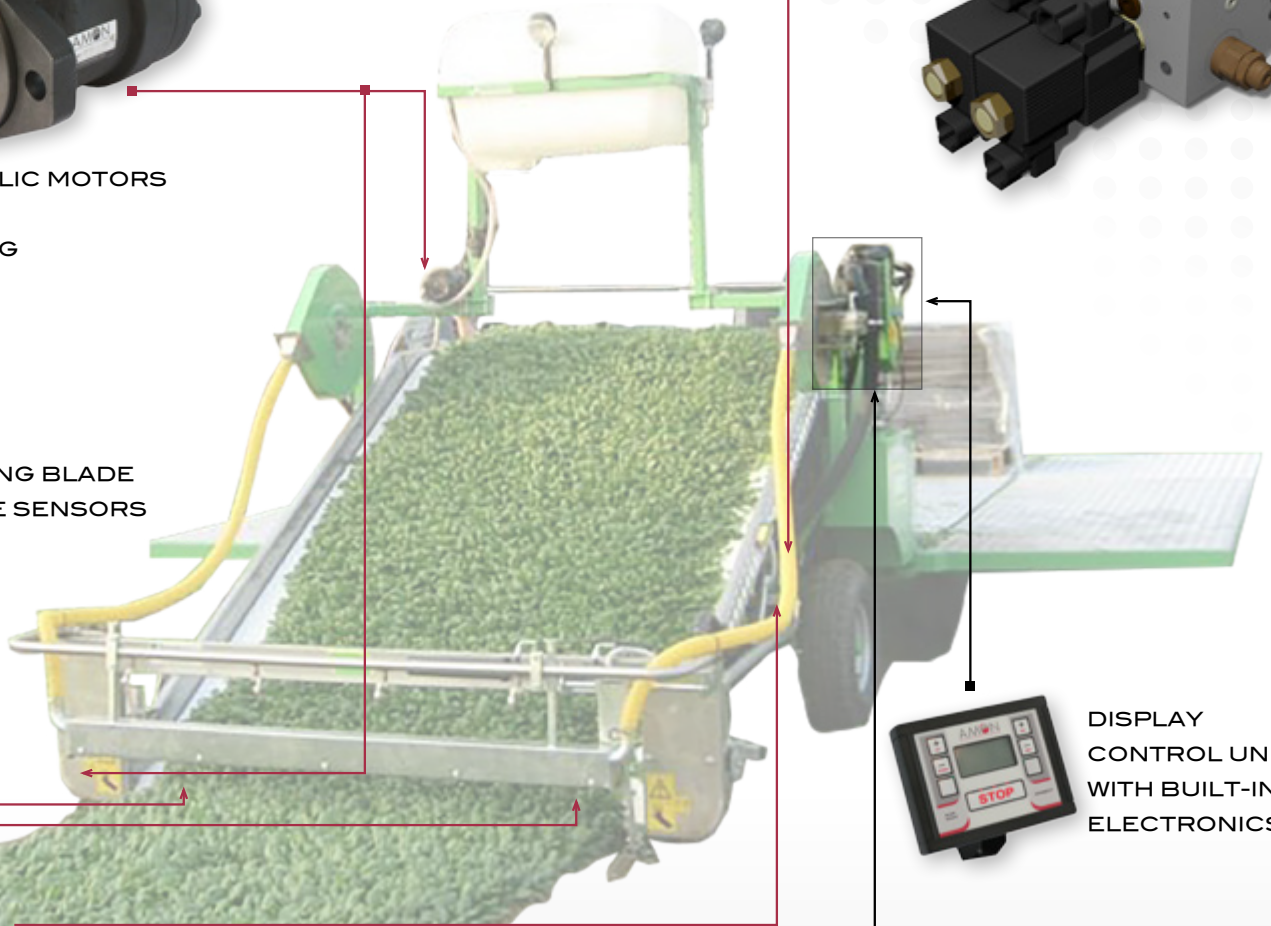


HYDRAULIC MOTORS

- BELT
- CUTTING



CUTTING BLADE
ANGLE SENSORS



DISPLAY
CONTROL UNIT
WITH BUILT-IN
ELECTRONICS

HARVESTERS



WIRING
HARNESS



PROPORTIONAL MANUAL
CONTROL UNIT WITH BUILT-IN
ELECTRONICS

AMON
ELECTRO-HYDRAULIC CONTROLS

The Customizing Attitude

SELF LEVELING HARVESTING HEADER CONTROL SYSTEM

OPERATIONS

By means of angular sensors that are located on dedicated probes, the Electronic Control Unit (ECU) measures the distance from terrain on the left and right side of the cutting bar.

At the same time, by means of potentiometers that are located on the dashboard, the ECU reads the information regarding the machine's speed and the fine tuning of the cutting bar's inclination (left offset, center, right offset).

The data are used to evaluate the correct current that needs to be provided to the raise and lower proportional solenoid valves of the left and right jacks.

By monitoring the ground speed, the automated control performs a self-tuning of its reaction speed in order to have a smooth behavior at lower speed and be more "aggressive" at higher speeds.

DIAGNOSTICS

The ECU is equipped with a red LED that provides indications about alarm conditions:

- Angle sensor disconnected
- Potentiometer for bar's offset disconnected
- Solenoid valves disconnected
- System in AUTO mode at power on (the auto levelling function may only be activated by the operator after the machine has been started).

TECHNICAL SPECIFICATIONS

- **Power Supply:** 12-24Vdc
- **Current consumption (max):** 4 A @ 12Vdc
- **Maximum error on self levelling:** ± 1mm
(depending on the type of probes)
- **Minimum required flow:** 24 l/min
- **Maximum flow:** 40 l/min
- **Maximum working pressure:** 250 bar

APPLICATION EXAMPLE

