Automation and implementation of navigation system to LGV (Laser Guided Vehicle)

The agv can be of different types:

- laser-guided (lgv, laser guided vehicle). The guidance technology uses laser reflectors placed along the path of the vehicles that allow you to calculate the position of the vehicle;
- a magnetic drive (using small magnets or a magnetic strip that guides the vehicle along the predetermined path);
- guided by rails, which move along the rails installed on the floor or suspended.

Specifically, the job of revamping consisted:

- the replacement of hardware components no. 6 lgv , installing components ndc8
- reprogramming software full board lgv in terms of missions , safety , hmi
- the definition of a new lay-out
- reprogramming of the management system of the missions, traffic
- adaptation of the communication protocol plc master - ndc 8
- in exchange for the communication protocol in ethernet plc master - ndc 8

It has also been implemented:

- infrastructure wi fi
- server and client pc to pc management software ndc8
- safety laser scanner
- specific integrations with software management missions

The machines and the complete system have been re-certified CE

Note: The NDC system does not need an electrical panel header , and you can connect via ethernet (wi-fi) opc with i/o signals management of land.