

INSPECTION SYSTEM AND METHOD FOR PERFORMING INSPECTIONS IN
A STORAGE FACILITY

ABSTRACT

An inspection system (1) for a storage facility (S) comprising an automatic guided vehicle (2) with a
5 bidimensional positioning system and an unmanned aerial vehicle (3) with a measurement sensor to acquire measurement data.

The inspection system (1) further comprises a position control system to maintain the unmanned aerial
10 vehicle above the automatic guided vehicle in the vertical direction, an altitude sensor to acquire a relative vertical distance between the unmanned aerial vehicle and the automatic guided vehicle, and a communication system to transmit the measurement data to a remote server (100).

15 The inspection system (1) transmits to the remote server (100) a set of tridimensional coordinates associated with the measurement data comprising horizontal coordinates function of the bidimensional location of the automatic guided vehicle (2) on the floor (F) of the storage facility
20 and a vertical coordinate function of the relative vertical distance of the unmanned aerial vehicle (3) with respect to the automatic guided vehicle (2).

FIGURE 1