

Tote Bin Handling System for the Oman Air In-Flight Catering Facility Muscat International Airport Oman

ASS Pte Ltd were engaged by Galfar Engineering and Contracting SAOG to implement a Tote Bin Handling Conveyor System at the Oman Air In-Flight Catering Facility located at the Muscat International Airport, Oman.

The original supplier of the conveyor system decided not to complete the project. ASS were asked to install the system, and provide the associated PLC and SCADA Software Systems.

The system comprises Roller Conveyors, Belt Conveyors, Elevators, Merges, Diverts, Roller Shutters and Fire Doors.

The System is a transport system to send loaded Bins from the Warewash Area to the Tray Assembly and Equipment Packing Areas. Empty Bins can be returned from each area to the Warewash Area. The mainline conveyor is installed at approx. 4000mm above floor level. Elevators raise/lower the Bins from/to the Load and Unload Stations.

The Control System utilises a Siemens PLC System, together with an extensive ProfiBus Network connecting the key control components such as, VSDs, Laser Devices, HMIs, and Weigh Scales.

The SCADA System provides full visualisation and manual control is provided via Hand Held Terminals.



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