



## SYDNEY AIRPORT Sydney, Australia 1999 - 2000

### Baggage Handling System with Tilt Tray Integration

#### Scope of Supply:

- 31 check-in, tag, and induction conveyers
- Out of gauge check-in
- Integrated sortation tilt tray
- 9 destination laterals
- 6 Multipath reclaim carousels
- sort make-up carousel

Glidepath was contracted in March 1998 by Thiess Contractors on behalf of Ansett Australia Limited to provide an automated baggage handling system for the then - Ansett Sydney Domestic Terminal. Glidepath completed installation of the system in June 2000.

The completed system is comprised of 31 check-in positions each with a scale conveyor, tag conveyor and induction conveyor. The check-ins are grouped in pairs each with an individual transport conveyor which declines through a penetration in the floor slab enabling the passengers to walk between the pairs of check-in positions after checking in. The declines feed the transport system in the bag hall where it is inducted onto a tilt-tray sorter. Baggage is then tipped off to one of the 8 lateral conveyors, which is designated to a particular flight for loading.

Most of the system is supported by a hanging system anchored to the building structure. The total length of belt conveyor is 750m. There is also a pallet loop make up unit 120m in length, 6 Multipath reclaim loops totaling 450m in length and the tilt tray sorter at 300m long.

There are two main levels of control in the baggage handling system.

(i) High Level Controls which receive the BSM (baggage source message) from the airport system. This data is time-stamped and matches the acceptance of bags into the check-in system with its flight data. This then defines which lateral the bag is to be delivered to and passes this information to the low level control system.

(ii) The Low Level Control System tracks the bag along each conveyor via photo eyes and constantly updates the computer model. The bag passes through the bag tag scanner to confirm the bag with its flight number. The bag is then simply tipped off the sorter at its designated lateral point.

The Glidepath High Level Controls interface with the Low Level Controls and the Crisplant System. The system has a full Maintenance Diagnostic System, thus enabling the operator to determine any problem that may occur on the system such as bag jams, motor faults or emergency stops.



**glidepath**

