

AUTOMATIC LEVELING DEVICE FOR CONVEYING PLATFORM AND LOADER

ABSTRACT

The invention relates to the technical field of airport ground equipment, and particularly relates to an automatic leveling device for a conveying platform and a loader. The automatic leveling device for the conveying platform comprises a main platform and a bridge platform, an automatic leveling mechanism is arranged between the main platform and the bridge platform, the automatic leveling mechanism comprises a baffle, a supporting plate, a low-level sensor, an aligning sensor, a high-level sensor, and an ultra-high shutdown protection sensor. The loader comprises a chassis, the chassis is provided with the automatic leveling device for the conveying platform, one side of the bridge platform is provided with an operating board and an elevator, and the other side of the bridge platform is provided with a bridge platform side-tilting prevention mechanism and a rotary guardrail, a main platform-bridge platform connecting mechanism is arranged between the main platform and the bridge platform, and the main platform-bridge platform connecting mechanism comprises a connecting frame, a connecting plate, a connecting roller and a connecting shaft. In the invention, the main platform and the bridge platform have the same docking height and are stably docked, the bridge platform is free from side tilting, the rotation of the guardrail is provided with detection, and the escalator is stable to step on.

Fig. 1