

Engineered For Safety !

Application Designed: Pentalift Hydraulic Security Lift Table



A high security facility contacted Pentalift and discussed a limited access system for vehicle traffic. To monitor and restrict the movement of vehicles both entering and exiting the facility it was decided that a Pentalift hydraulic lift table, in the raised position, would serve as a cross bridge. The lift table is approximately 10' wide, 16' long with a 100,000 lb structural roll over capacity. All vehicle traffic is directed through an access tunnel. The lift table is installed inside this access tunnel. In the stored position the lift table is lowered and recessed into a 6' deep pit, when raised the platform becomes a section of the roadway allowing vehicle cross traffic. Security personnel determine vehicle authorization, if authorized to enter or exit the facility the lift table is raised permitting vehicle cross traffic.

In the raised position 10 pins, 5 per side, are hydraulically activated securing the lift platform structure in the locked cross traffic position. The 10 pins mechanically lock the platform structure in position eliminating any impact or shock loads on the hydraulic positioning components. The Control Panel features Red/No Access, Green/Access signal lights that are also wired into an exterior traffic signal light system. The hydraulic operating system is PLC controlled and the platform is powered both up and down.



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