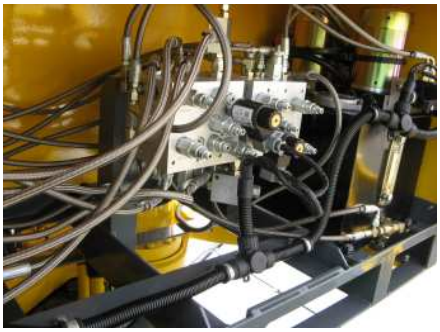
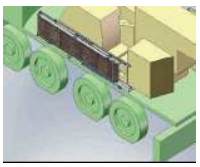
Sales Case Study

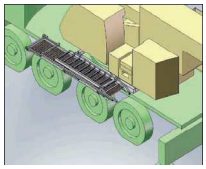
Application: Work access platforms are fitted to both sides of a crane superstructure for improved access to both the crane operator cab and crane engine module. The platforms are stowed in vertical position for transport. When needed, each platform unfolds to the horizontal position at the press of a button. The carrier deck handrails are raised and lowered independently at the push of a button. Push button controls are located on both sides of the crane and in the crane cab with a “Dead Man" switch function for optimum operator control and safety. It provides safe access and egress for operation and maintenance for the crane driver and riggers as well as maintenance crews.

Product Group: Manifolds, Sun products, Stone power units and hydraulic cylinders.

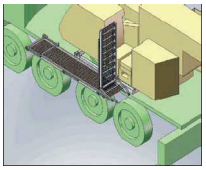




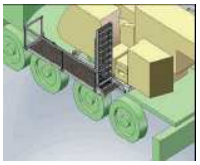
Stowed for transport



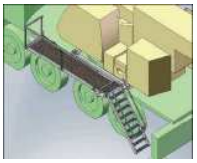
Platform unfolds



Access ladder unfolds



Safety rails up



Deployed for use

Summary: We worked with the customer to provide a simple cost effective system to meet their design brief. The customer required a solution that was not complicated and would be simple to maintain without specialised personnel required for the long term maintenance of their product.

Solution: We offered a four stage hydraulic sequencing manifold controlling hydraulic cylinders for the controlled sequencing of the access ladder. The power unit comprises two units mounted in a common tank. The customer designed and fitted electrical safety interlocks to prevent inadvertent operation of the access ladder which is integrated into the cranes systems.

Advantages of Solution: Has no PLC control logic control system that is subject to failure that requires expertise in remote operational areas to fault find and or repair. The hydraulic solution offers a simple but effective system for the long term operational requirement of the system.