

Hydraulic Hose Storage Reeler System

Redpath Australia Pty Limited

The Problem or Initiative

Manual Handling, Slips, Trips and falls are at the top of the list of the most common mechanisms resulting in injuries to workers across all workplaces no matter what the industry.

During a routine inspections of a Redpath workshop area it was identified that there was a continuing housekeeping issue in regards to the storing and handling of $\frac{3}{4}$ " and larger hydraulic hoses that could not be supplied on reels like smaller diameter hosing. The current method of storing and handling the larger sized hydraulic hoses has the potential to impact employees Health & Safety by creating;

- manual handling hazards due to the weight of the hoses
- slip, trip or falling hazards due to the difficult nature of storing the hoses once the hose length is unraveled

Prior to the Hydraulic Hose Storage Reeler System concept being designed and implemented there was a real risk of exposure to employees as seen in Picture 1 below.

Redpath along with G3 Engineering Brisbane investigated options to improve functionality of the hose container and reduce the potential exposure. The concept of a vertical steel upright frame with cable reels attached that have roller mechanisms which allow the hydraulic hoses to be pulled through easily in a controlled manner with out physical exertion was designed and installed.

Picture 1. Hose container prior to installation



Picture 2. Hose reeler installed in container



This design meant that the larger size hydraulic hose could now be stored off the ground and out of the way minimising exposure to any slip, trip or fall hazard. The design also has an attached winch which enables easy lifting of the cable reels eliminating the need for employees to lift the heavy hose to hang on to the wall.