

Keeping Hoses and Cables Secured on Swing Bridges

► Problem

A swing bridge also known as pivot bridge or turn bridge is a low moveable bridge that can have long spans. Its primary structural support is usually near the center of gravity in a vertical axis. In its closed position, a swing bridge allows traffic to pass over the waterway. When a ship needs to pass, the bridge will swing (rotate) approximately 90 degrees to allow the vessel to pass. The disadvantage with these types of bridges is the structural supports (turntable) causes an obstruction in the waterway, limiting its use.

These bridges carry numerous electrical cables and hydraulic hoses that control the rotation of the bridge. It is very important to keep these cables and hoses from abrasions or getting tangled and twisted as the bridge rotates. If these hoses or cables become damaged during movement of the bridge, the operator could potentially lose control and the bridge could become stuck in an unwanted position.

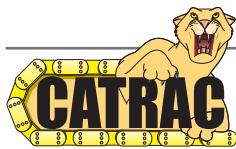


► Solution

The side-mounted, double-radius Catrac cable and hose carriers have been used on and specified by many engineering firms over the years to provide a rugged, reliable, custom-built solution for each bridge.

These types of bridges carry numerous electrical cables and hydraulic hoses that must rotate as the bridge opens/closes. Our steel Catrac offers glide bars, transfer balls, special magnets, removable stiffeners, adjustable or welded dividers, special mounting feet, optional hold down clips (for track and drums), bolted and stainless-steel construction.

If required custom built enclosures for the cable and hose carriers are available.



► Benefits

These Catrac cable and hose carriers are custom made to fit each specific inner and outer drum diameters.

They provide separation and management for cables and hoses (to prevent abrasion, wear, and twisting). The center pivot design allows smooth cycling, with field-replaceable track components. All units are made with durable & rugged steel components.

Catrac brand cable and hose carriers are proudly designed, fabricated, and built in the United States of America.

► Conclusion

AMETEK Factory Automation has over 50 years experience in designing and building custom Catracs to meet demanding environments, such as bridges, steel mills, deicing machines, aerial lifts, directional drilling machines, stacker reclaimers, etc. We can supply complete systems or spare parts, as needed.

Contact our applications engineers for additional information or to discuss your specific needs in detail.



Original CATRAC Cable and Hose Protection



Snaptrack Nylon Protection of Cables and Hoses