

Vulcan Tool Company Engineered Fittings Improve Performance & Reduce Cost

Vulcan Solution—Longer lasting coolant lines that cost **40% less**

Situation

OEM transmission coolant lines on a County Engineer's Western Star dump trucks lasted less than a year during normal use. Transmission line failure caused downtime and increased maintenance workload. Their trucks are equipped with Cummins Diesel engines and Allison automatic transmissions.

Challenge

The OEM coolant lines cost \$900 per set. A stainless-steel option may be available soon, but is expected to cost over \$2000. The customer required a cost effective solution that could be implemented quickly and minimize equipment downtime.

Vulcan Solution

County, township and municipal garages are now using Vulcan Tool Company engineered fittings to save taxpayer dollars and increase equipment uptime.

The JIC to quick disconnect fittings are made of corrosion resistant stainless steel and cost \$350 per pair (each truck needs two fittings). The fittings are used with custom rubber hydraulic hoses that cost approximately \$200 per set.

Together, the fittings and hoses replace the OEM steel transmission lines while providing a rust free solution that costs \$350 less than standard replacement parts. Maintenance labor costs are also reduced due to the nature of the quick disconnect fittings and longer life of the easy to install corrosion resistant rubber hoses.

Our Services

Vulcan Tool Company specializes in the design and engineering of custom solutions that help our customers provide products and services of higher value and lower cost. Our design services can help translate your vision into the part, tool, fitting, fixture, or machine that you need help creating. We work with your concept to deliver the right mix of functionality, delivery, and cost.





Vulcan Tool Company

VULCAN SERVICES

Machining, Fabrication & Maintenance Solutions

Precision Machining

We provide quick turn-around of details that require milling, turning, and grinding. Vulcan Tool Company has 5-axis milling and Wire/Ram EDM capability in house. Our injection mold equipment is used for sampling new molds and short production runs. In addition to traditional machining, customers rely on us for innovative 3D printing solutions.



Welding & Fabrication

Vulcan Tool Company's welders are certified to meet our customers' requirements. We join broken pieces, prepare weldments for machining, build stairs/platforms/railings and produce custom racks/bins/tables. In addition to welding aluminum, carbon steel and stainless steel, we work with copper alloys. We create flow racks and custom material handling equipment using extruded aluminum or Creform/Fastube/Flexpipe type materials.

Machine Repair

We repair and re-manufacture machinery components including cylinders, gearboxes, pumps, motors and other critical wear parts. Vulcan Tool Company's technicians troubleshoot and repair a wide variety of equipment and control systems. In addition to electro-mechanical needs, we can address machining and welding requirements such as spline, gear, shaft, bearing surface, sleeve, and keyway repair.



Custom Design & Build

Vulcan Tool Company's design services can help translate your vision into the part, tool, fixture or machine that you need help creating. We work with your concept to deliver the right mix of functionality, delivery and cost. Common customer projects include custom machines, controls integration, punches and dies, end of arm tooling, and prototype molds.

