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AUTOMOTIVE

Application Profile

LoPro® Guides Lean Automotive Assembly

Challenge

An automotive manufacturer struggled to maintain consistent production task time at a chassis assembly workstation due to lost and misplaced tools. Additionally, shift operators utilized the required tools differently which resulted in a time variance.

Application Description

A moving assembly line continuously moves car chassis thru a multiple operation workstation. The workstation operations must be completed within a set cycle time so that the continuous production could continue factory wide. The required assembly tools were located and utilized differently by the various operators and were frequently located an undesirable distance from where the tools were needed. The manufacturer wanted to have the tools follow the car chassis so that they are always available where needed.

Solution

The automotive manufacture installed a long linear guide LoPro® track plate to the side of the moving production workstation. All required assembly tools were relocated to a LoPro® wheel plate assembly for quick and easy access. A latch was added to contact the moving chassis and pull the tool station along with the car so that the tools are always located where they are need. At the end of the operation, a rotary spring return cable pulls the tool station back to the starting position for the next chassis.

Products Used

LoPro® Linear Guidance System

Size 4 Track Plate Assembly
with Carbon Steel Track

Size 4 Basic Wheel Plate Assembly



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