

**INDUSTRY**  
AUTOMOTIVE & TIRE

**APPLICATION**  
SKID CONVEYOR

**PRODUCT**  
MEGAFLEX PS 4.8



## SITUATION/APPLICATION

The automotive industry is a highly competitive and demanding manufacturing environment where successful production hinges on minimizing operating costs while maximizing uptime rates. Reducing reactive maintenance for proactive upkeep and more reliable equipment components, therefore eliminating preventable downtime, is critical to achieving this balance.

With a constant production schedule, automotive facility conveyor lines need reliable belts to assist in moving vehicle frames down the assembly line. Unfortunately, some belts have a high risk of breakage, downtime, and inefficiencies.

## THE PROBLEM

When a major American automotive manufacturer needed to reduce its facility downtime caused by belt failures, it turned to Megadyne's team of technical experts to determine the root cause of the recurring belting problems and develop a custom solution to reduce unnecessary downtime.

A rubber belt used on the automotive manufacturer's skid transfer system was quickly deteriorating, leaving behind excessive black dust and leading to premature breakage. The Megadyne technical team knew the automotive manufacturer needed to replace the belt with a stronger alternative that provided better abrasion resistance.

## THE SOLUTION

After consulting directly with the client for detailed information about their belting challenge, the Megadyne technical team developed an endless Megaflex PS 4.8 flat belt constructed with wear-resistant 92 ShA nylon fabric for low drag. Reinforced with steel cord, the belt offers an average break strength of 48000N (10,970 pounds of force) and accommodates lengths from 4000mm (13.12') up to 22000mm (72.18') with a width of 80mm.

Composed of black thermoplastic for high abrasion resistance, this material also ensures low wear and reduces dust. High strength steel cord was designed to reduce stretch, maintaining a consistent length throughout operation. By adding special nylon fabric, the Megadyne team also reduced conveyor noise and vibration.

## THE RESULT

With the creation of the endless Megaflex PS 4.8 flat belt, specifically developed for the cross transfer conveyors, the Megadyne team developed a custom solution that offered the customer reduced downtime, lower operating costs, enhanced dimensional stability and the ability to maintain plant maintenance.

With six decades of experience solving customer challenges in diverse industries, continuous research and development efforts, and a knowledgeable customer support staff, Megadyne helps customers develop efficient, cost-saving belting solutions for a range of unique applications.

As a leading manufacturer and fabricator of a broad portfolio of products designed to serve a wide range of industries, Megadyne doesn't only produce quality industrial belts – we problem solve and provide world-class customer service.

