

## Case Study – Mercedes-Benz, Brazil

### Customer

Daimler Chrysler,  
BR 040 - Km 773  
Juiz de Fora - MG, Brazil

### Problem

In 1998, the new Mercedes-Benz plant in Juiz de Fora, Brazil was completed. The facility is designed to produce the Mercedes-Benz A-Class model, and is the first Mercedes plant to produce passenger cars outside Germany. For the final line end at the Assembly Shop, Mercedes-Benz has chosen a PlymoVent Exhaust Extraction System. The PlymoVent distributor in Brazil, Tempset Engenharia e Instalações Ltda, was together with PlymoVent appointed for the design and installation of the system.

### Solution and how we did it

The PlymoVent Looped Rail System was installed over a 31 m/102 ft long section of the final line end to secure complete exhaust extraction when running the cars. The system allows for several cars running simultaneously and this particular installation was designed for five vehicles running at the same time. In total, eight crabs with hose run along the extraction rail and each hose is equipped with a Grabber® nozzle that tightly grips the exhaust pipe. The nozzle is automatically disconnected from the pipe and the crab returns to the initial position by itself to serve the next car.



### PlymoVent supplied equipment

- 1 31 m/102 ft – Looped Rail System
- 8 External Crabs with compressed air tank
- 8 EH-100-10 – Exhaust hose
- 8 Grabbers for automatic disconnection
- 1 Automatic air refilling station
- 1 Gravity crab return system