Case studies - Looped Rail

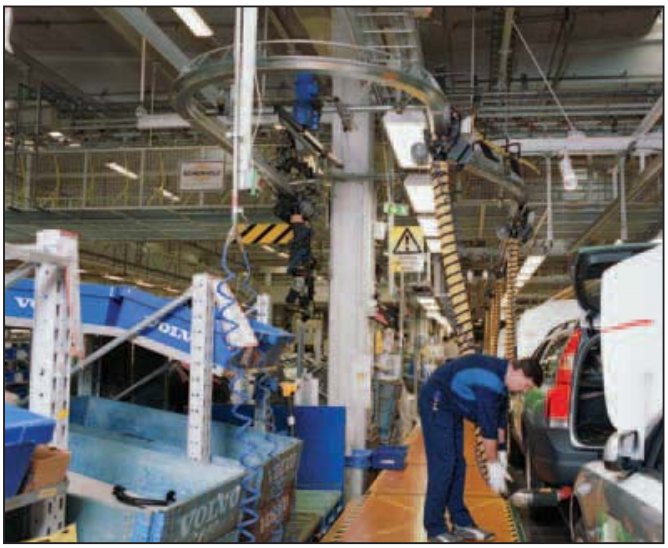
PLYMOVENT®
INTELLIGENT PROCESS VENTILATION™

Case Study – Volvo Personvagnar AB, Sweden

Customer
Volvo Personvagnar AB,
Torslandafabriken, TC 14
Göteborg, Sweden

Problem

At the Torslanda plant, Volvo manufactures the two top models S-80 and V-70 station wagon. In order to solve the problem with exhaust emission at the final assembly line, Volvo chose a system from PlymoVent that was designed to function under the special conditions at this part of the plant, i.e. low ceiling height and high production rate.



Solution and how we did it

PlymoVent installed a 40 m/131 ft long looped rail to guarantee complete extraction of the exhaust emissions as the engines are started for the first time. A total of ten crabs with hose circle around the extraction rail. Each hose has a compressed air operated Grabber® nozzle which ensures complete sealing around the tailpipe. The hose is automatically lowered and easily connected to the tailpipe. The Grabber® is automatically disconnected as the car leaves the assembly line, and the hose is pulled up by a motorized hose lift. The crab then returns to the starting point, ready to be connected to the next car.

PlymoVent supplied equipment

1	40 m/131 ft – Looped Rail System
10	External Crabs with electrical hose lift and compressed air tank for inflatable Grabber® nozzle
10	EG-125-2.65 – Exhaust hose
1	Automatic air refilling station
1	Gravity crab return system