

ACCURATE DISPENSING OF HIGH VISCOSITY PVC SEALANTS IN AUTOMOTIVE PRODUCTION LINES

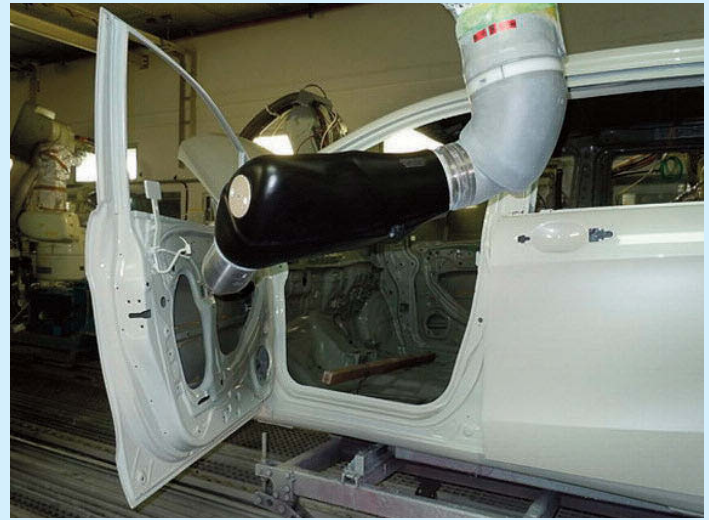
An automobile production line needed to ensure precise measurement and dosing of sealants during paint finishing operations. After auto production, sealant is applied to welding spots, tank wax to the chassis and PVC to the frame hub for better corrosion resistance.



Due to high viscosity of PVC sealant and frequent changes of manipulator actions during spraying, operators used inching actions most of the time. Flow meters used in the paint finishing operations must have excellent repeatability and corrosion resistance to provide the necessary feedback to ensure accurate operations.



A Helical Gear Positive Displacement Meter from AW Lake provides high-resolution, 3,500 pulses/L, and a 0.1 per cent repeatability that ensures compliance with customer metering requirements even



under inching and micro flow conditions. A tungsten carbide alloy bearing and rotor surface hardening treatment improves flow meter corrosion resistance, extending its product service life.

As the measurement range ratio reaches as high as 1:100, the system works in a low range segment in high- viscosity conditions to greatly reduce flow meter pressure loss. With operation pressure reaching to 400bar, the system adapted to a higher back pressure during start/stop. Viscosity range could reach 1,000,000cst, making it suitable for applications such as silica gel.



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