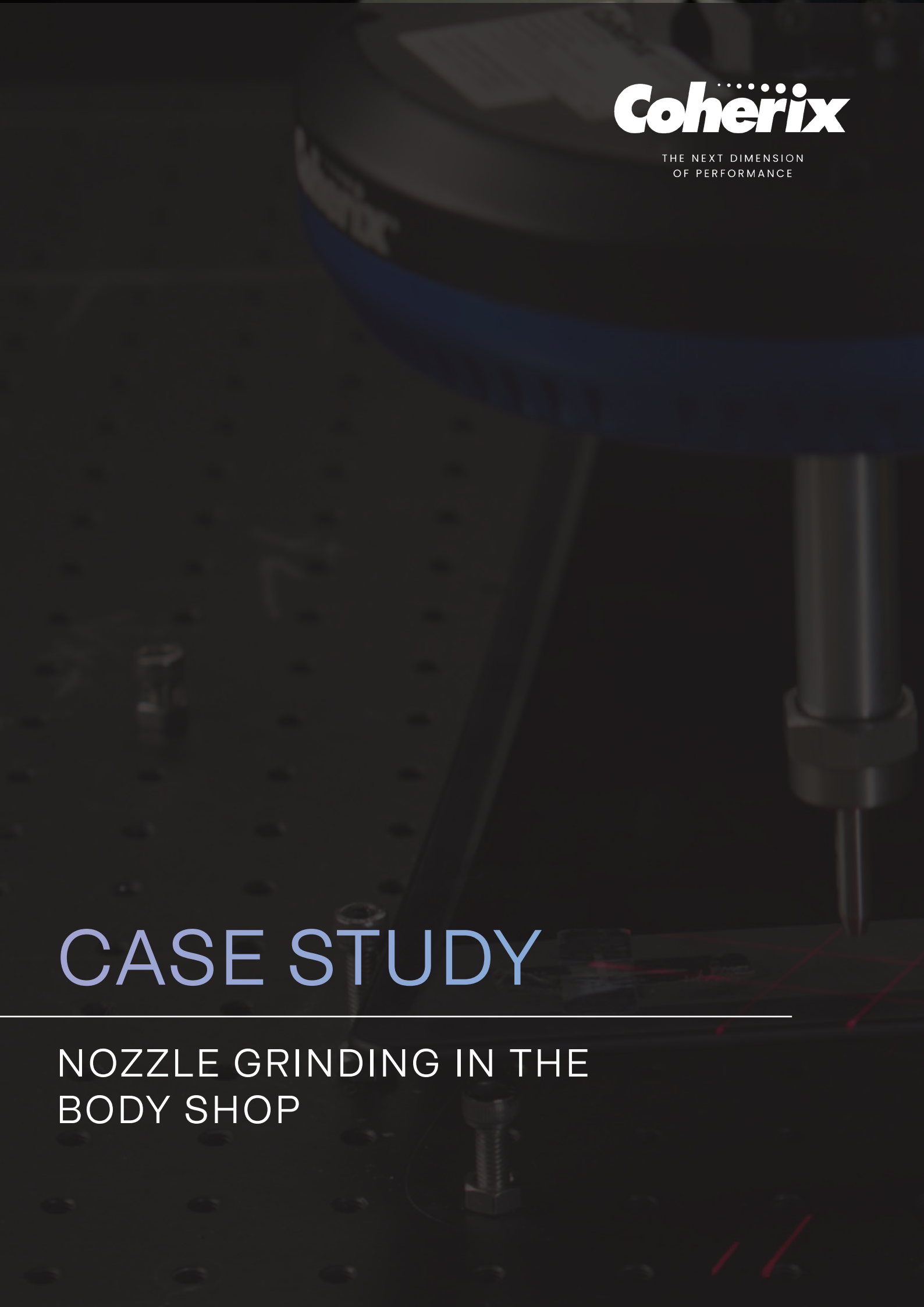

Coherix

THE NEXT DIMENSION
OF PERFORMANCE

CASE STUDY

NOZZLE GRINDING IN THE BODY SHOP

HOW A GLOBAL AUTOMOTIVE OEM USED COHERIX 3D Z-TRACKING TO OVERCOME NOZZLE GRINDING & BREAKS IN THE BODY SHOP

A large global automotive OEM faced significant challenges in dispensing structural adhesive on Body-in-White (BIW) parts in its body shop.

Due to high part-to-part variation, the dispensing nozzle repeatedly crashed into the parts, leading to nozzle grinding and frequent breakages. This issue resulted in over $21,000 per year in replacement nozzle costs alone.

Beyond the nozzle costs, each nozzle replacement causes unscheduled downtime, disrupting production and creating downstream delays. The OEM found that nozzle-related downtime added up to losses exceeding $250,000 per year - an unbudgeted expense with a significant impact on operations.

To address this challenge, the OEM implemented Coherix 3D Z-Tracking, an innovative solution that dynamically adjusts nozzle height in real-time by sending Z-offset data to the robot. This adaptive approach allowed the OEM to compensate for part variation, effectively preventing nozzle grinding and crashes.

Coherix Z-Tracking

With Z-Tracking, the OEM nearly eliminated unscheduled downtime and nozzle grinding, achieving annual savings of over $270,000. By maximizing throughput and improving quality, Coherix 3D Z-Tracking provided a performance-boosting solution for the OEM's body shop.

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