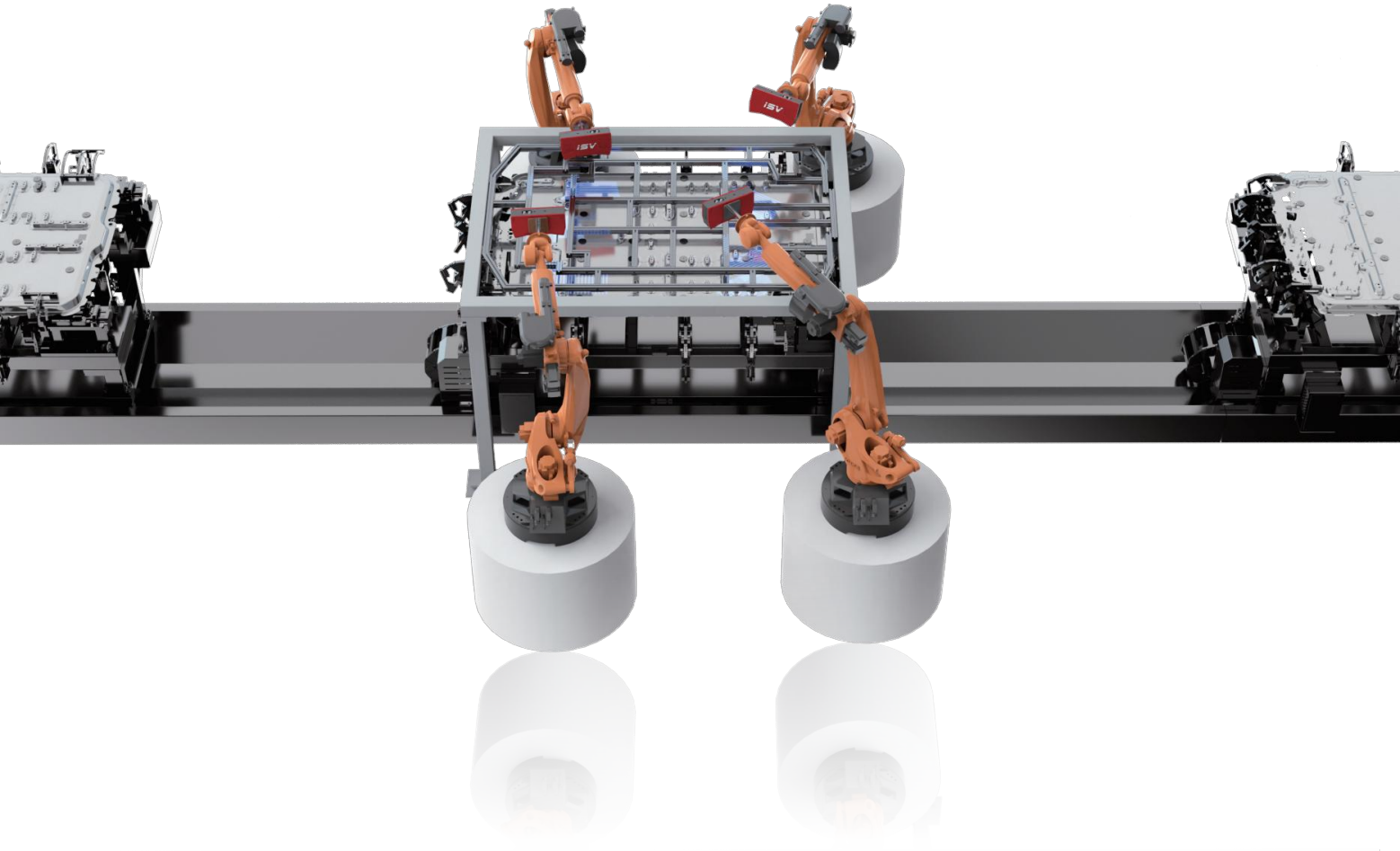
InlineCalibre

High Efficiency High Precision Full-Feature Coverage



ISV EHR GmbH

TEL:+49 (0) 7231 9731 - 0
FAX:+49 (0) 7231 9731 - 9

E-mail:info@ehr.de
Address:Carl-Zeiss-Straße 15 D – 75217 Birkenfeld

Inline Dimensional Measurement Solution

OEM:Body shop,Battery Shop;Tier 1 Supplier





ISV Inline Dimensional Measurement Solution utilizes blue light structured light scanning to perform 100% inline inspection of critical dimensions across key manufacturing stages - including underbody assembly, Body-in-White (BIW) framework,and side panel assembly.The system enables real-time deviation alerting and end-to-end quality fluctuation monitoring throughout production workflows.

Solution Advantages

01 Full Feature Coverage

Adapts to components of all scales (S/M/L) with complex feature measurement capability including threaded holes,studs & flanges.

02 Ultra-Fast Precision

Achieves 0.5s/measurement zone at ≤35μm accuracy (per ISO 10360-7).

03 Self-Correcting System

Auto-calibration reduces manual intervention by 70% (validated in OEM pilot).

04 Multi-Source Data Fusion

Enables statistical process control (SPC) with drill-down root cause analysis.

Technical Comparison

	CMM Offline Measurement	3D Point Cloud Inline Measurement
Measurement Speed	4H-6H	<1Min
Measurement Scope	Full inspection of features,sampling inspection of parts	Full inspection of parts,sampling inspection of features
Environmental Requirements	Constant temperature and humidity	Workshop operating environment
Maintenance and Care	High cost	Low cost
Application Value	First-piece inspection,periodic sampling inspection,precise analysis	In-line full inspection,trend monitoring, process quality control