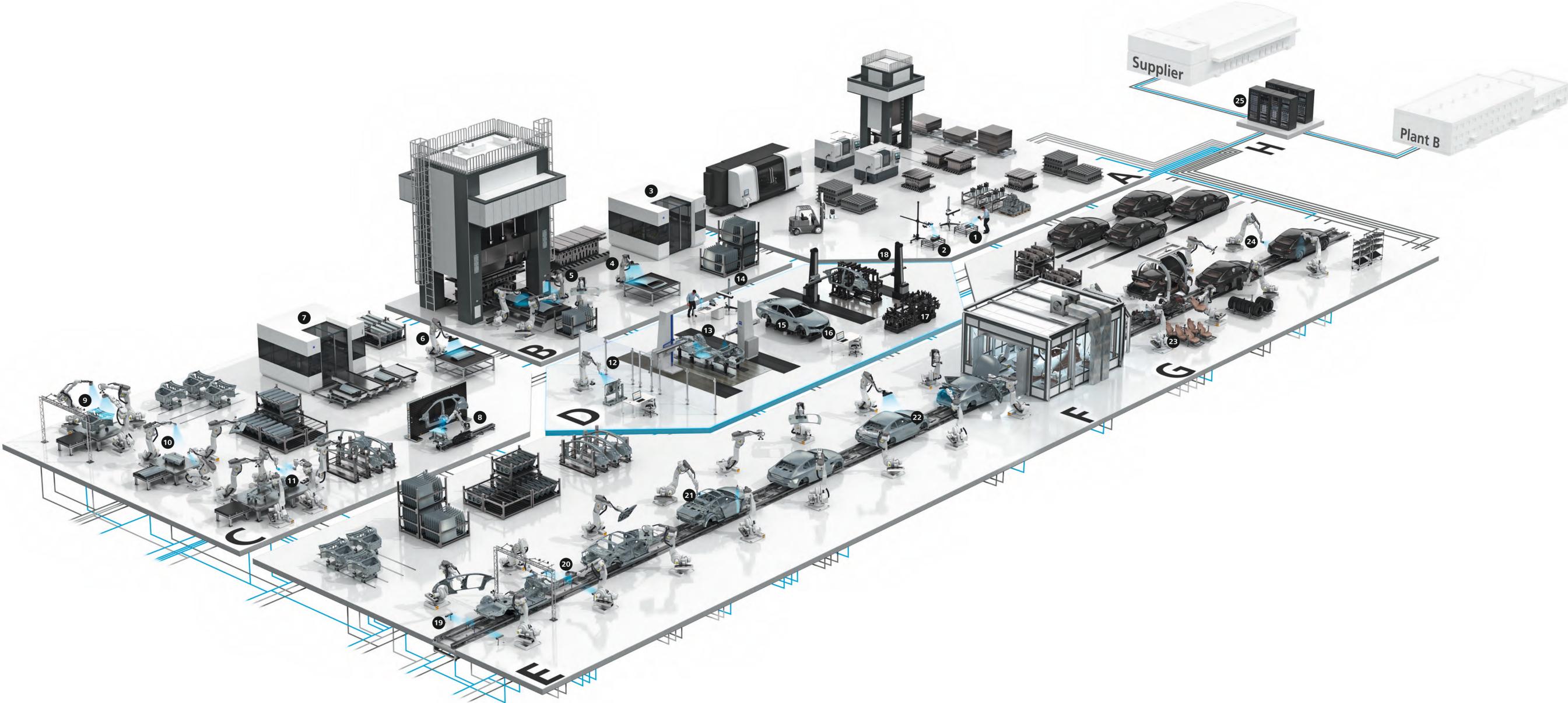


ZEISS Car Body Solutions



A Toolmaking **B Press Shop** **C Component Manufacture in Car Body Construction** **D Series and Analysis Measuring Center** **E Complete Car Body** **F Paint Work** **G Final Assembly** **H Quality Data Networking**

- 1 ZEISS T-SCAN Scanning System**
Manual 3D digitization of the press part mold with a hand-held scanner and tracker.
- 2 ZEISS COMET**
At-line 3D analyses of individual press part molds.
- 3 ZEISS AIBox**
Full-surface digitization, measurements of functional dimensions and features along with CAD comparisons – at-line.
- 4 ZEISS AIBIS At-line**
Random sampling for surface inspections of pressed parts – at-line.
- 5 ZEISS AIBIS In-line**
100% inspection of pressed part surfaces in the press line.
- 6 ZEISS AIBIS**
Random sampling for surface inspections of hang-on parts like doors, hoods, trunk lids and fenders using a robot-based sensor.
- 7 ZEISS AIBox with ZEISS Loading System**
Full-surface digitization. Manual loading system comprises pallet tables and modular fixtures for hang-on parts.
- 8 ZEISS AIBox flex and ZEISS Fixture Systems**
Robot-based modular measurements and digitization of side parts and fenders. System comprises the optical sensor ZEISS COMET Pro AE, a seventh axis and a rotary table.
- 9 ZEISS AiCell trace with AIMax cloud**
Correlation-free in-line measuring cell for real-time process monitoring of complex characteristics and ramp-up support starting with the first manufactured part.
- 10 ZEISS AiCell with AIMax cloud**
In-line measuring cell for 100% real-time process monitoring of very complex characteristics like welded nuts behind sheet metal or rivets.
- 11 ZEISS AiCell with AIMax**
In-line measuring cell for 100% real-time process monitoring of complex geometric characteristics with maximum robustness.
- 12 ZEISS AiCell with AIMax or AIMax cloud**
Offline station for programming new models, versions and measurement points without interference of the ongoing production process.
- 13 ZEISS PRO with ZEISS EagleEye**
Analysis, correlation and series measurements of body shells, hang-on parts as well as analyses of finished vehicles with the multi sensor measuring system, tactile and optical sensor ZEISS EagleEye – offline in the measuring center.
- 14 ZEISS T-SCAN Scanning System**
Manual 3D digitization with a hand-held scanner and tracker – offline.
- 15 ZEISS External Matching Equipment**
Quality and optimize assembly sequences and the individual parts, optimize flush and gap, ensure viability and suitability for assembly.
- 16 ZEISS CALIGO**
The ZEISS offline software for freeform surfaces, digitization, simulation and analysis in car body construction. Meanwhile, the integrated ZEISS PiWeb software ensures professional reporting.
- 17 ZEISS Matching Equipment for Assembly**
Quality and optimize joining sequences and the individual parts, optimize flush and gap, ensure viability and assembly capabilities.
- 18 ZEISS CARMET**
Analysis and correlation measurements on body shells and hang-on parts as well as finished vehicle analysis with tactile sensors – offline.
- 19 ZEISS In-line Fixed Sensors: ZEISS AIMax in-line und ZEISS BestFit**
Fixed sensors enable solutions for a wide range of measuring jobs, including extremely quick feature measurements, position detection and production control tasks.
- 20 ZEISS AiCell trace with AIMax cloud**
Correlation-free in-line measuring cell for real-time process monitoring of complex characteristics and ramp-up support starting with the first manufactured part.
- 21 ZEISS AiCell with AIMax**
In-line measuring cell: capture gap and flush on the entire car body with attached parts like doors, fenders, hood and trunk lid.
- 22 ZEISS AIBIS In-line**
100% surface inspection of the entire car body – in-line.
- 23 ZEISS AiCell with AIMax**
In-line measuring cell once paint work is completed: capture flush and gap on the entire car body with mounted parts like doors, fenders, hood and trunk lid.
- 24 ZEISS AiCell with AIMax**
In-line measuring cell in final assembly: capture gap and flush on the finished vehicle on wheels.
- 25 ZEISS PiWeb / PiWeb cloud**
Visualize, store, analyze, exchange and network measurement data anywhere, even at different global sites.

