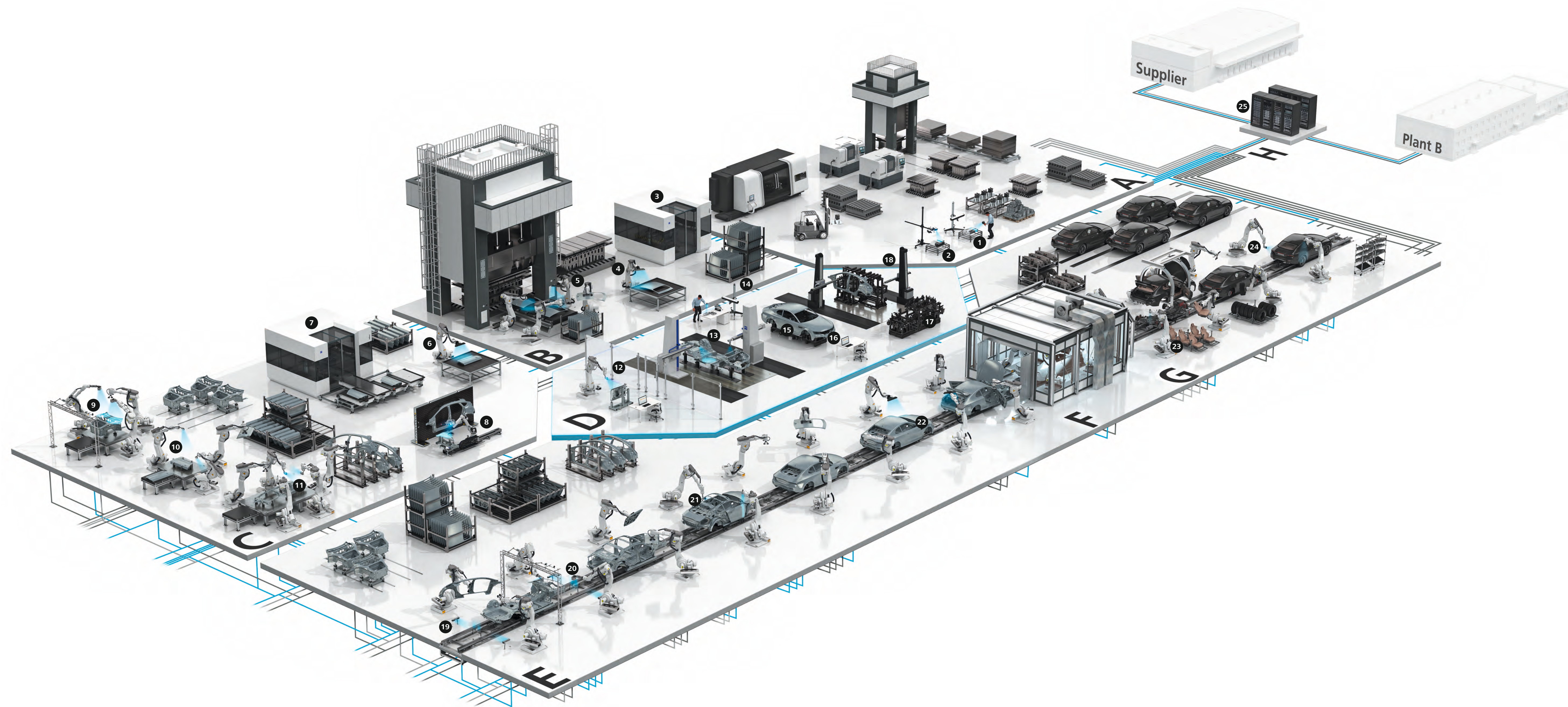


ZEISS Car Body Solutions



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
<p>1 ZEISS T-SCAN Scanning System Manual 3D digitization of the press part mold with a hand-held scanner and tracker.</p> <p>2 ZEISS COMET At-line 3D analyses of individual press part molds.</p>	<p>3 ZEISS AIBox Full-surface digitization, measurements of functional dimensions and features along with CAD comparisons – at-line.</p> <p>4 ZEISS ABIS At-line Random sampling for surface inspections of pressed parts – at-line.</p> <p>5 ZEISS ABIS In-line 100% inspection of pressed part surfaces in the press line.</p>	<p>6 ZEISS ABIS Random sampling for surface inspections of hang-on parts like doors, hoods, trunk lids and fenders using a robot-based sensor.</p> <p>7 ZEISS AIBox with ZEISS Loading System Full-surface digitization. Manual loading system comprises pallet tables and modular fixtures for hang-on parts.</p> <p>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.</p>	<p>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.</p> <p>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.</p> <p>11 ZEISS AICell with AIMax In-line measuring cell for 100% real-time process monitoring of complex geometric characteristics with maximum robustness.</p>	<p>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.</p> <p>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.</p> <p>14 ZEISS T-SCAN Scanning System Manual 3D digitization with a hand-held scanner and tracker – offline.</p> <p>15 ZEISS External Matching Equipment Quality and optimize assembly sequences and the individual parts, optimize flush and gap, ensure viability and suitability for assembly.</p>	<p>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.</p> <p>17 ZEISS Matching Equipment for Assembly Qualify and optimize joining sequences and the individual parts, optimize flush and gap, ensure viability and assembly capabilities.</p> <p>18 ZEISS CARMET Analysis and correlation measurements on body shells and hang-on parts as well as finished vehicle analysis with tactile sensors – offline.</p>	<p>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.</p> <p>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.</p> <p>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.</p> <p>22 ZEISS ABIS In-line 100% surface inspection of the entire car body – in-line.</p>	<p>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.</p> <p>24 ZEISS AICell with AIMax In-line measuring cell in final assembly: capture gap and flush on the finished vehicle on wheels.</p>	<p>25 ZEISS PiWeb / PiWeb cloud Visualize, store, analyze, exchange and network measurement data anywhere, even at different global sites.</p>

