Product engineering design (CAD)

DESCRIPTION

Styling feasibility

- Verification that both legislation and internal OEM standards requirements have been met

Technical feasibility

- Verification that production and structural requirements have been met

Stamping feasibility
Weld access
Assembly sequencing
Section areas
Material thickness
Paint access
Paint drainage

3D component design
BIW-space frame

- Space frame design for small or special vehicles
- Body and chassis frame design for buses and coaches

Contact: idiada@idiada.com
• Bodies with stamped components

Closures

• Bonnets
• Hinged doors
• Sliding doors
• Tailgates
• Filler doors

Exterior and interior trim

• Dashboard elements
• Cockpit modules
• Frontend modules
• Front and rear bumper systems
• Side door trims

Package, gaps and offsets

Design

Volume definition

Ergonomics

Tolerance calculations

• Trunk elements
• Front seats
• Rear seat systems

Process quality control

• Weld gun access studies
• Stamping feasibility
• Mold flow investigations
• Studies and optimization of tolerances
2D assembly sequence schemes

- A4 format for ease of handling intended for both design and process engineering use

2D detail and assembly drawings / Explosion drawings

Assembly instructions.

- Final assembly process sheets