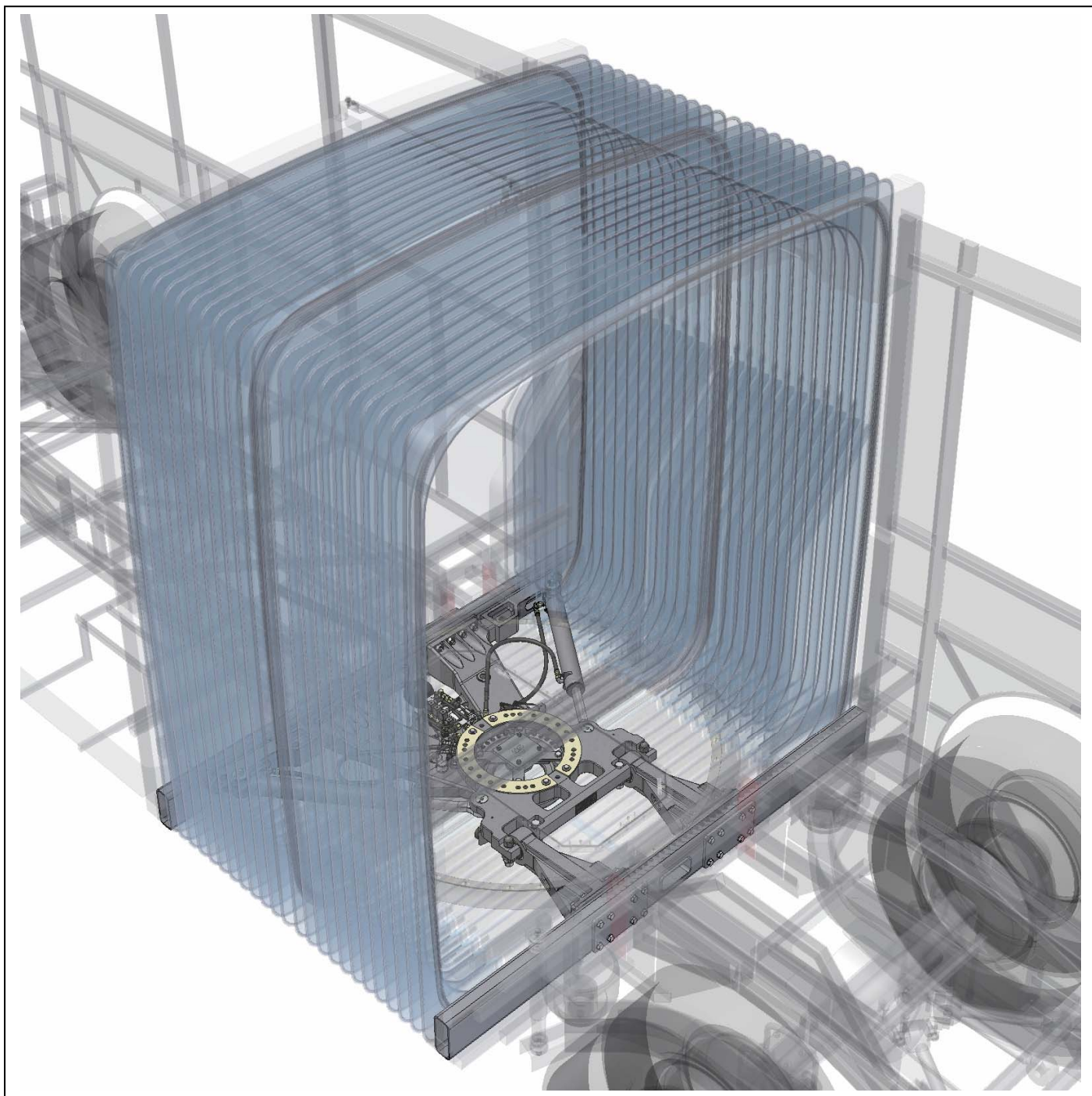




Protezioni
Elaborazioni
Industriali



ATG AUTOTECHNIK GMBH



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Company History PEI



PEI Bologna

1980 PEI founded in Bologna

1985 SPER founded in Cremona

2001 Zanini takeover by PEI Group

2005 Start of Bus bellows development



SPER Cremona

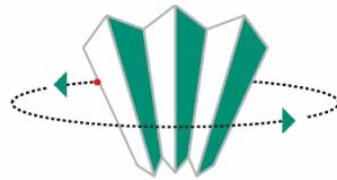
2009 PEI East opens in Serbia

2011 Train bellows # 120 sold

2012 Bus bellows # 450 sold.



PEI East



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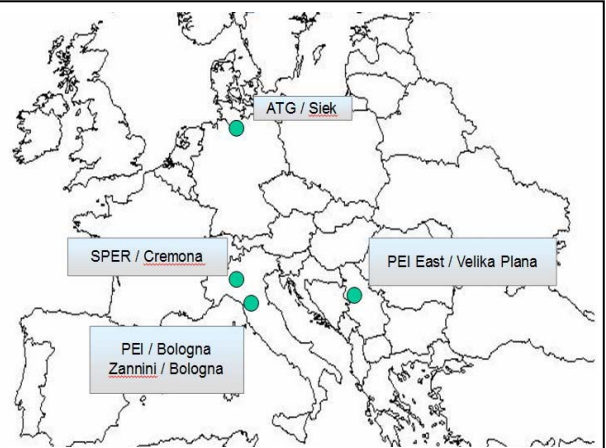
Company History ATG

- 1989 ATG established to design and manufacture articulations for articulated buses, The ARTIC-O-MAT range of articulations has expanded considerably since 1989.
- 1991 ATG opens the new factory in SIEK (near Hamburg).
- 1993 Start of serial production of the ARTIC-O-MAT Lyon pusher articulation for the RVI Agora.
- 1994 ATG is ISO 9000 certified.



ATG Siek

- 1996 Bus Articulation number 1 000 is delivered to New Flyer Industries
- 2000 Bus Articulation number 2 000 is delivered to IRISBUS.
- 2008 ATG starts the design and development of articulations for LRV's
- 2010 Bus Articulation number 5 000 is delivered to New Flyer of America (D60LF). Tram Articulation serial production commences
- 2012 Bus Articulation number 5 800 will be delivered to VOLGABUS. Tram articulation number 228 will be delivered to SKODA



THE COMPLETE SYSTEM

ATG can supply the complete articulation system consisting of

- PEI folding bellows
- ATG centre hoop
- ATG hose and cable guiding.
- ATG turntable cover plates
- ATG articulation
- Connecting chassis cross members and bolts.

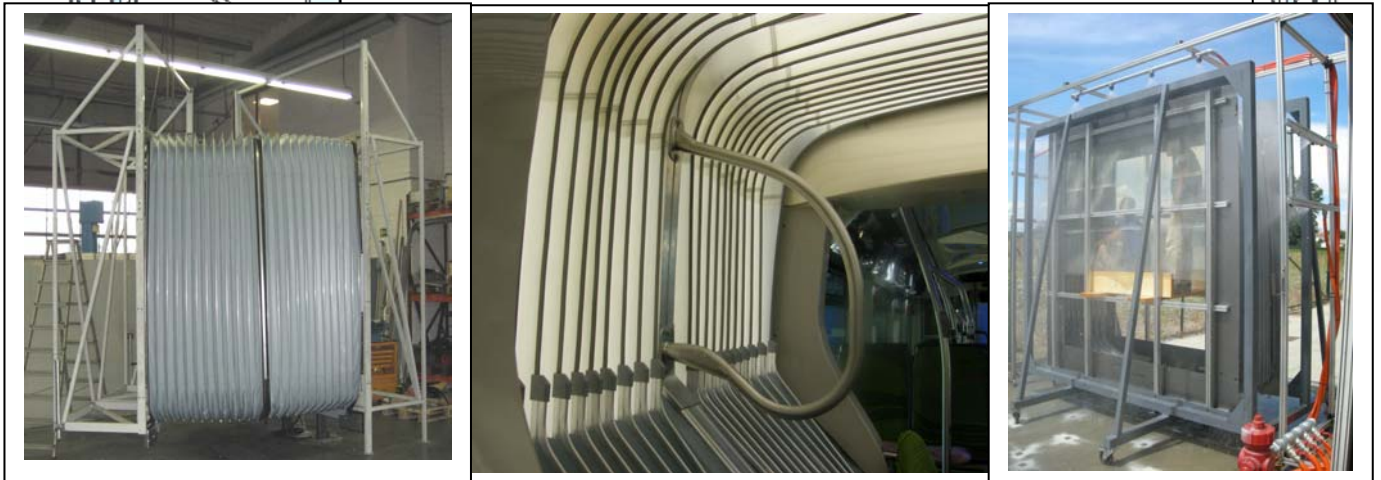
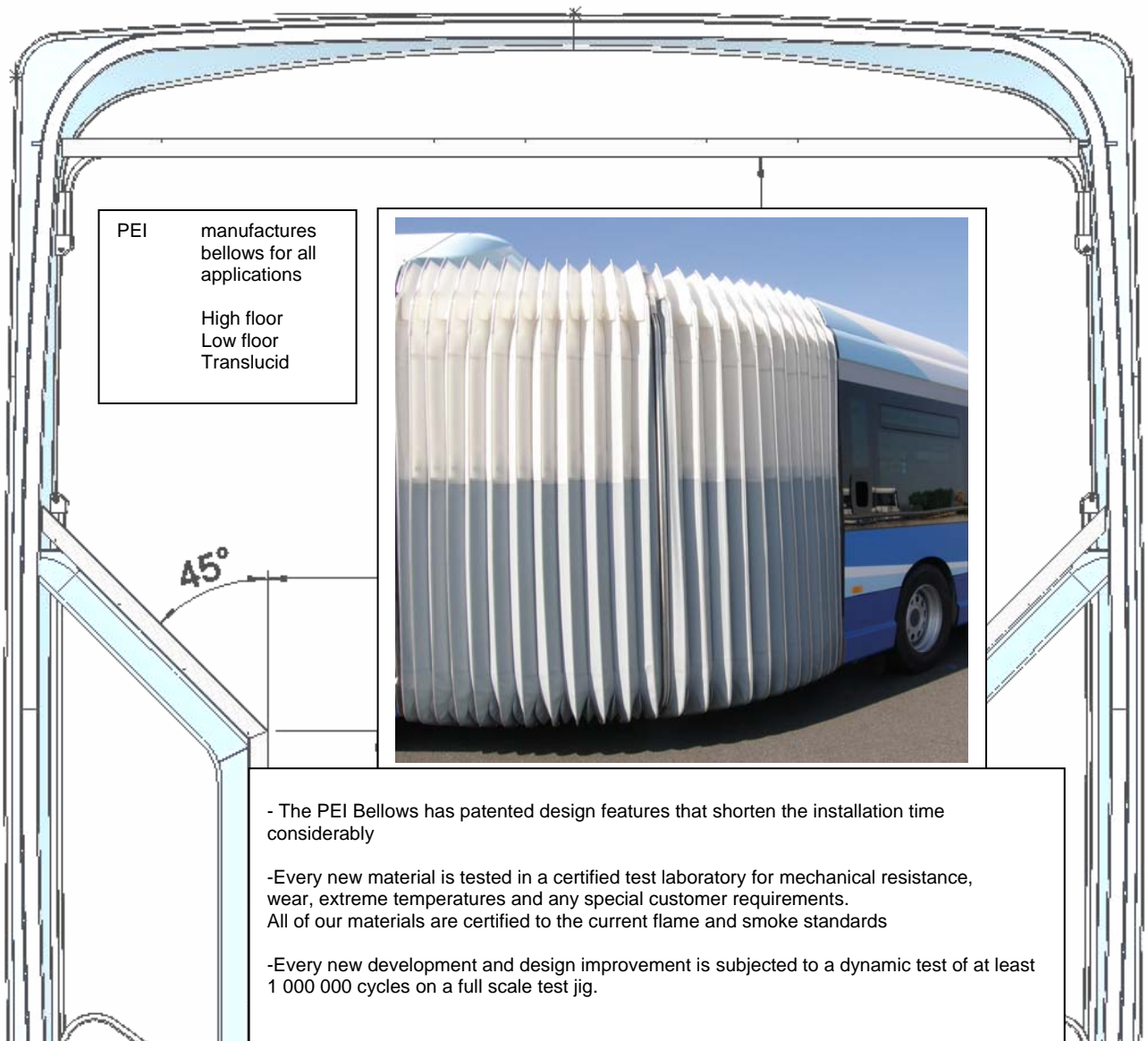
The ATG / PEI articulation systems are easy to install, robust and durable.

The design of the system can tailor made to suit the customer's requirements, high or low floor in pusher or puller modes.



THE RIGHT COMBINATION

THE FOLDING BELLOWS



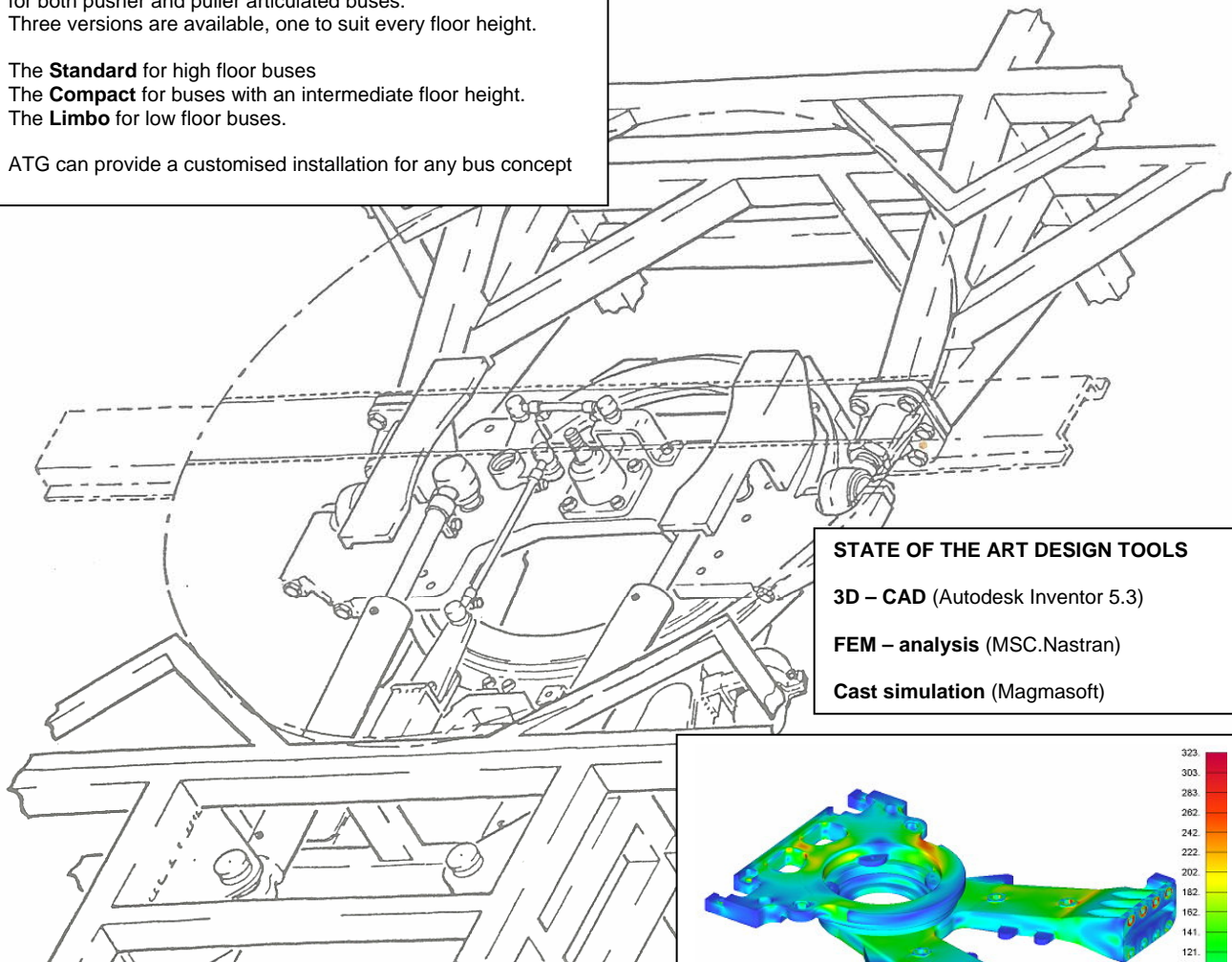
THE RIGHT COMBINATION

THE ARTICULATIONS

The ATG ARTIC-O-MAT range of turntables are manufactured for both pusher and puller articulated buses. Three versions are available, one to suit every floor height.

The **Standard** for high floor buses
The **Compact** for buses with an intermediate floor height.
The **Limbo** for low floor buses.

ATG can provide a customised installation for any bus concept



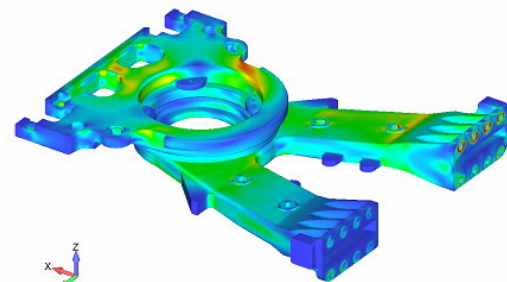
STATE OF THE ART DESIGN TOOLS

3D – CAD (Autodesk Inventor 5.3)

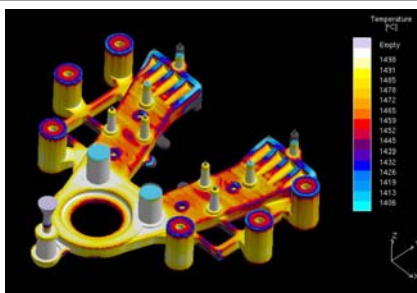
FEM – analysis (MSC.Nastran)

Cast simulation (MagmaSoft)

The ATG articulations are subjected to a rigorous development and test program before serial production commences. The current Limbo II articulation was subjected to extensive hydro pulse testing and in vehicle endurance testing. Every Limbo articulation undergoes a complete functional check on our in house hydraulic test jig

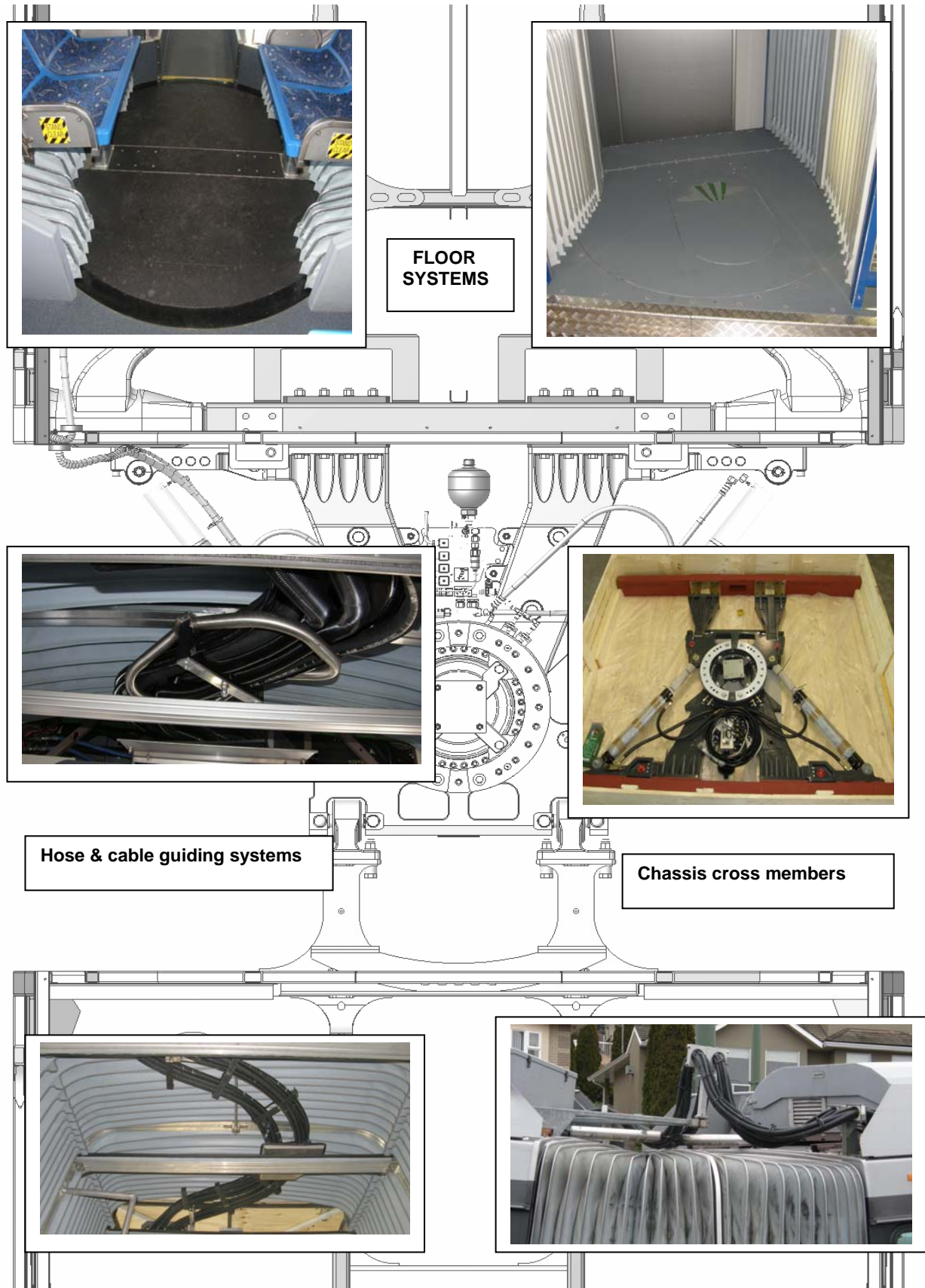


Output Set: Lastfall 7
Contour: Solid Von Mises Stress



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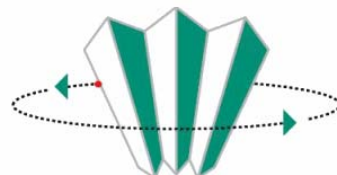
THE ARTICULATIONS



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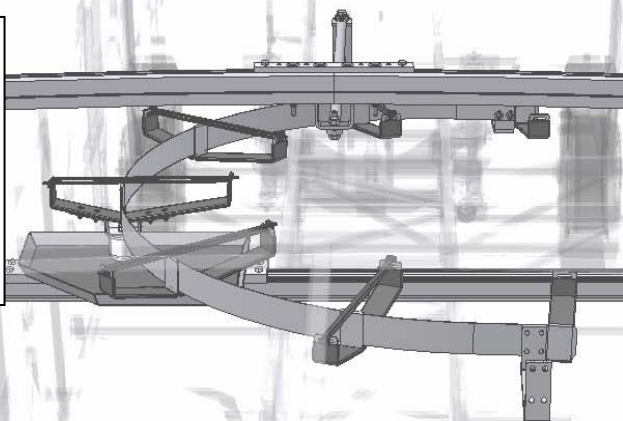
ATG AUTOTECHNIK GMBH

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