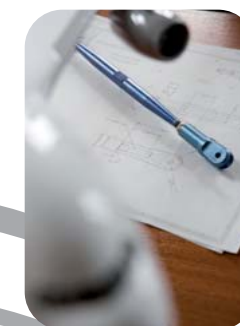
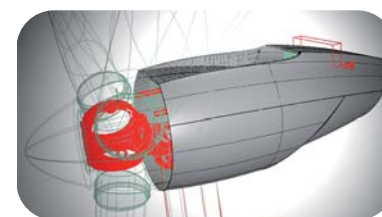
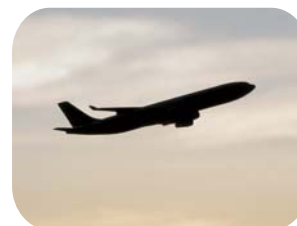


Engineering Services

Technical know-how for successful project realisation.



possible
as asystem

We are successful, therefore you too.

www.assystem-germany.com



ASSYSTEM Aerospace Germany GmbH

Sportallee 77
22335 Hamburg
Germany

Tel. +49 40 507961-0
Fax +49 40 507961-99

info@assystem-germany.com
www.assystem-germany.com





Engineering Services

possible
as assystem

Where new solutions are searched for, one thing is asked for: Experience.

Technical know-how



Our competence is the engineering of new and/or variants of mechanical and electrical systems and structure. Whether a single component or complex assemblies – we develop the solution – from pre-design, through design engineering, construction and the supervision of series production, to modification and certification. Our material competences are in lightweight design composite and sandwich materials as well as classic metal construction. We feel at home next to aerospace, in automotive and mechanical engineering, shipbuilding or wind energy.

Our competence in the area of manufacturing is the new and/or reorganization of manufacturing processes, as well as, in trouble-shooting during manufacturing to series manufacture maturity. Here we draw on extensive knowledge of material-science and technology, especially in the area of composites.

Support - according to your needs

Experts
Temporary personnel
integrated on-site
in your teams



Expert solutions
Work packages according
to your specification
in-house at our premises



Experts know-how
Outsourcing,
in one stop shopping
from a single source



Successful project realisation

Since only those that know a lot of their profession, can develop visions that are transferable. Benefit from our competent support, based on the diversified knowledge of our specialists and experts.

Examples

Mechanical Systems - Concept and development of jockey container
Concept for a cargo compartment skid for an Arabian customer.

- > Common transport of jockeys and race horses in the cargo compartment
- > Horse transport in standardised flightcases
- > Special fitted skid with integrated lights and oxygen boxes for the jockeys, which can be easily assembled and dismantled if required

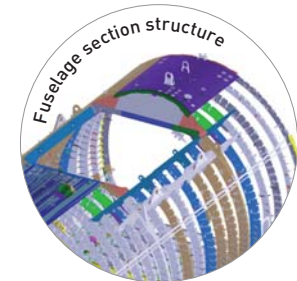
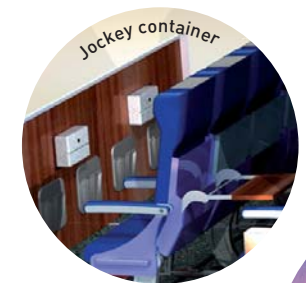
Electrical Systems - Cabin concept electric A380 freighter

Concept for „Mini-Passenger-Area“ for up to 30 passengers and crew.

- > Interface Management: monuments, cabin interior, structure, systems, electric
- > Presentation of coordinated concept
- > Concept models in 3D
- > Wiring diagrams, detail drawings and pre-designs

Structure - Analysis and calculation

- > Static and dynamic, symmetrical und asymmetrical stability analyses
- > Finite element calculation of different loading cases
- > Creation of stress reports
- > Review of concessions
- > Estimation of damage tolerances
- > Preparation of all needed certification actions



References, e.g.

- Airbus
- Air Berlin/LTU
- B/E Aerospace
- DAe Systems
- DASELL Cabin Interiors
- Diehl Aircabin
- Eurocopter
- Labinal
- LATelec
- Lufthansa Technik
- Premium Aerotec
- ...

Services at a glance

Systems

- > Concepts, feasibility studies, specification and development
- > Design (3D) and installation plans (2D)
- > Modification and solutions for concessions
- > Certification documents
- > Manufacturing & conversion support
- > Space allocation & clash detection in DMU (Digital Mock-Up)
- > Development and integration of systems and system components to structure/cabin

Mechanical Systems

- > Development of interior components (VIP- and commercial aircraft)
- > Cabin modification and conversion
- > Preparation of spare part lists and operating instructions

Electrical Systems

- > Functional design (installation/wiring diagrams)
- > Development and design (cabin/basic wiring)
- > Supply units and communication systems (CIDS, IFE, Seats)

Structure

- Development, design and stress of structural components and assemblies – especially primary and secondary structure.
- > Fuselage assemblies (fuselage shells, floor framework)
 - > Wing components (spar box, pylon, high lift systems) and tail assemblies
 - > Development of aerodynamic fairings and fixtures



We are a part of the French Assystem Group, a leading supplier in Europe for engineering services with about 10,000 specialists in 14 countries.

- > Manpower of more than 700 certified engineers and technicians at fully equipped German Assystem locations
- > Transnational project realisation
- > Integration of own offshore sites
- > Certified according to aviation standard EN 9100, EADS E2S preferred supplier for engineering services, Airbus approved supplier for engineering services