



A.C.E adopts clear structures and efficient organisation methods for all project activities and project phases, as laid down by the **DIN EN ISO 9001 Quality Management certification**, which our company has proudly obtained. Continued development and optimisation of quality assurance are the two most important aims of the company.

**Maximum customer satisfaction** coupled with responsibility and respect for the environment and natural resources are the priority aims of A.C.E. The central focus of our engineering is to achieve the Clients aims within planned cost structures, whilst combining all holistic processes.

From the beginning to the end of a project, there has to be a long process of design, agreement, decision making and coordination. We undertake the responsibility for performing and supervising these tasks from design concept to handover of the completed project, in which time we **support** the Client in the realisation of his aims **with our wide experience in all aspects of airport design technology.**

In order to maintain quality, time and cost, this means that, before, during and after the completion of every project, **we will perform and provide solutions and concepts, which are individual, of high quality and fully developed.**

In the process A.C.E. can also fall back on the know-how and competence of partner companies, with whom long-standing and reliable working relationships have been established.

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Frankfurt Int. Airport – Eastern Taxiways  
Masses approx. 80,000 m<sup>3</sup>,  
Concrete/Asphalt surface approx. 194,000 m<sup>2</sup>



Düsseldorf Int. Airport, Reconstruction TWY L7  
(© pictures, as no further mention: A.C.E. GmbH)

## Ingenieurgesellschaft für Flughafenplanung und Verkehrswesen mbH

Member of the Sellhorn-Group

A.C.E. GmbH is an engineering design office for aeronautical and transportation facilities.



The company has worked successfully, since its Foundation in July 1997, in **specialised fields for the design and development of airports and airfields.**

A.C.E. can offer the **full scope of services for airport consulting.** Our company consists exclusively of engineers and technical support staff, who together can tackle all necessary aspects of airport engineering thanks to the years of experience, obtained by performing projects.

This applies, above all, to the design and construction of aircraft movement areas and drainage systems, airport lighting and all other technical and operational facilities including transmitters and meteorological facilities.

### Overview

- Airport planning and construction management with all civil engineering services incl. Technical equipment
- Feasibility Study
- Masterplanning
- Plan approval procedure
- Planning and construction supervision
- Construction monitoring and controlling
- Design of Airport installations
- Studies and expertises for (operating) sequences and requirements specific to airports
- Due Diligence studies



## Spectrum

### Civil Engineering

New Construction and refurbishment of runways, taxiways and aprons, including all civil engineering work Code Letter F / Airbus A 380 to all Categories by taking into consideration of ICAO and EASA conformity

- Sewer construction, sewage treatment plants, hydraulic control systems and retention basins
- Infrastructure

### Technical Equipment (incl. civil engineering)

- Approach lighting
- Lighting and signposting of aircraft movement areas
- Building management systems
- Taxiing guidance systems
- Equipment according to operating category II/III
- Docking systems, design of aircraft parking positions, passenger loading bridges
- Meteorological equipment
- radio navigation aids
- Firefighting equipment
- De-icing areas
- Fuel depots
- Security systems / boundary fencing and gate systems, road and paved area construction

### Expertises / Studies

- Studies and expertises for (operating) sequences and requirements specific to airports
- Building construction incorporating airport technology, e. g. terminals, freight handling facilities, etc.
- Air traffic prognosis
- Feasibility Studies

## REFERENCES (EXTRACT)



Frankfurt Int. Airport – Ramps 4 + 5  
Masses approx. 180.000 m<sup>3</sup>,  
Concrete/Asphalt surface approx. 188.000 m<sup>2</sup>



Upgrading Frankfurt-Hahn Airport  
Concrete/Asphalt surface approx. 65.500 m<sup>2</sup>,  
Runway extension, Taxiway- and Drainagesystems,  
Threschol 03, central retention basin (44.000 m<sup>3</sup>)  
(© picture: PlanePictures.net, Reiner Bexten for Frankfurt-Hahn Airport)

## Airport planning from A - Z

- Aprons
- Aircraft movement areas
- Airport extension
- Andocksystems
- Approach lighting
- Construction under operational conditions
- Control and monitoring system
- De-icing systems
- Design of aircraft stands
- Distance measuring equipment (DME)
- Drainage systems
- Feasibility studies
- General expansion planning
- Instrument landing system (ILS)
- Lighting / airport ground lighting system
- Marking & signs
- Masterplanning
- Measuring and control technology (MSR)
- Navigational lighting technology
- Parking systems
- Plan approval procedure
- Power control technologies for drainage installations
- Purification and control systems
- Radio navigation aids
- Refueling system
- Runway guard lights
- Runway systems
- Rain water retention basins and pump stations
- Safety fence systems
- Site management / site supervision
- Studies and reports
- Taxiing guidance sign-posting
- Technical equipment
- Underground refueling systems

