Our Advanced Positioning System is a versatile set of diverse transponder tags and devices with processing and supporting hardware that can be used in many ways. Its strength lies in its flexible and scalable layout.

**Possible usage cases:**
- Anti-collision (for automation)
- Asset management (e.g. distances driven)
- Personnel and equipment tracking (safety)
- Container yard space optimization
For other requirements please feel free to contact us

**Technology**
Ultra-long-range antennas are installed on vehicles for collision avoidance tasks or on fixed locations.

Our small receiver units can be placed on helmets or on other machines.

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**How you benefit:**
- Reliable: works indoors, no dependent on GPS
- Highly accurate (to the cm*) and great range (>2 km outdoors)
- Simultaneous tracking of vehicles & people possible

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**Your contact:**
Philipp Esser
philipp.esser@thyssenkrupp.com
T: +49 162 4161107

digitalized expertise

engineering.tomorrow.together.
360° Service
Service solutions throughout the entire life cycle of your plant

Parts & supply management
We are the experts when it comes to the supply of spare and wear parts for your plant – over the entire lifetime, at the right time and with the right quality.

Spare parts supply
• All spare parts and components for your asset in OEM quality
• Always state of the art technology with guaranteed functionality
• Attractive frame contracts and supply agreements

Wear parts solutions
• Development of wear parts according to your requirements
• Individual solutions in regards of quality and performance
• Innovative wear parts concepts

Advanced parts solutions
• Engineering and manufacturing of individual spare parts
• Continuous further development of spare parts and components in order to increase the performance of your plant
• Spare and wear parts for plants genuinely not developed by thyssenkrupp

Field & workshop services
We offer you local assistance when it comes to overhauling spare and wear parts, or when maintenance and servicing is needed.

Technical inspections
• Forward-looking inspections of machines and components

Repairs and field support
• Fulltime site support and advice after handover of equipment
• Fault identification and emergency repair of components
• Installation and dismantling
• Equipment adjustments and alignments

Workshop services
• Local fabrication of spare parts
• Refurbishment and supply of thyssenkrupp and third party components

Operator & maintenance training courses
• Customer training for all areas of thyssenkrupp portfolio
• Utilization of product experts within thyssenkrupp’s global network

Revamps & outages
Over the course of time, demands change. In order to meet these changed demands, we offer you custom-tailored revamp solutions.

Analysis, engineering and manufacturing
• Plant status and environmental analysis and assessment
• Feasibility studies
• Basic, front-end and detail engineering
• Manufacturing of individual equipment

Plant improvements
• Custom-tailored revamps and retrofitting solutions
• Debottlenecking through capacity extensions
• Efficiency enhancement through modernization and upgrades
• Emission reduction
• Safety and integrity upgrades
• Reliability improvement

Revamps execution up to EPC
• Execution of complex revamp and outage projects
• Execution of EPC revamp projects
• Custom-tailored risk and profit sharing models

Turnaround management
• Management of plant turnarounds

Asset management
We offer you a holistic asset management approach in order to reduce the overall operating expenses of your plant.

Consulting & audits
• Evaluation and assessment of effectiveness and efficiency
• Process mapping and gap analysis
• Derivation and supervision of improvement measures

Technical guidance
• Implementation of improvement measures
• Technical improvement of existing machines and components
• Strategic analysis and future planning
• Improvement of processes and procedures

Operation & maintenance contracts
• Complete or partial take-over of maintenance and/or operation activities
• One-stop operation and maintenance solutions including parts and consumables
• Custom-tailored business models focusing on a win-win situation

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