With our state-of-the-art system solutions, HYDRO offers you the highest level of security while also increasing the efficiency of your work processes. In creating the optimal customer solution, we make use of the know-how, technologies and innovations of other industries.

Our main landing gear trolleys for the assembly line of the A380 and A400M are an excellent example of this ability to offer our customers unique solutions through re-combining cross-industry technologies:

- Freely programmable to allow the highest level of flexibility
- Genuine 3-D motion
- Semi-automation of assembly processes
- Faster positioning of the landing gear (up to 30% time saving compared with conventional equipment)
- Multi-purpose tooling: positioning of main landing gear & structural aircraft parts
- Absolute positioning accuracy of 0.05 mm

HYDRO is known worldwide as a developer of system solutions and a leading manufacturer of Ground Support Equipment and Maintenance Tooling for the maintenance and manufacturing of aircraft and engines. The trust placed in our products and services by more than 1,100 customers across 100 countries every day is based on the quality of our products, our ability to continuously innovate new solutions and our consistent customer focus.

Over 3,000 GSE products, 25,000 tools, numerous system solutions for almost all types of aircraft and countless individual bespoke developments for customers worldwide attest to the efficiency of our development department. More than a quarter of our staff are engaged in engineering and project management. Their expertise and experience enable us to develop valuable and sustainable solutions for safety, quality and efficiency in your own work processes.

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A perfect customer solution does not necessarily require the extensive replacement of equipment and systems. In the first stage of the analysis phase, we check to see whether the desired outcome can be achieved on the basis of available equipment. Working closely with you from the start, we develop sustainable solutions that meet your needs not just in terms of quality, but also from a cost perspective.

HYDRO engineering and project management using the very latest CAD technology.
Our diversity results not least from a quality and depth of manufacturing competence that is virtually without equal in the industry. As a member of the European Standards Committee with responsibility for CE certification, we are always fully up to date in terms of international norms and standards. This puts us in a position to provide our customers with the optimal solution for any given need. At the same time, our advanced IT security guarantees 100% data protection. HYDRO also has many years of development and production experience according to the UL standards used in the USA. Through the thorough testing of our system solutions under real-life conditions, using the world’s largest GSE test stand, we give our customers the confidence to totally rely on the functionality and safety of the developments we implement for them.

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**EXTENSIVE SERVICE RANGE**

Whether your need is for a detailed solution to optimize a sensitive maintenance task or the development of a complete production line, we can provide the ideal answer. Thanks to engineering capacities refined each year through hundreds of thousands of man hours, together with a global network of strategically located service centers, we are extremely versatile and flexible. A multidisciplinary team with broad expertise in mechanics, electronics and software design is available under the guidance of an experienced project manager to meet your requirements quickly, thoroughly and efficiently. Thanks to our decades of experience in all aspects of the development and production of Ground Support Equipment and Maintenance Tooling, you are free to choose whether to entrust us with a pure engineering services alone, or to request a complete package including manufacture, global commissioning and on-site service.

**KNOWLEDGE IS THE KEY**

The success of our engineering division is based not only on our years of industry experience and close cooperation with our customers, but above all on the knowledge and skills of our staff, more than a quarter of whom work in engineering and project management. Our ability to cover all areas in-house – from mechanics, electronics and software programming to design and manufacture – makes us the “Single Source Supplier” of choice for challenging engineering projects. In this way, we avoid interface losses and uncontrolled outflows of knowledge. Our customers benefit from this versatility via fast response times, high flexibility and rapid and smooth project completion.

**Key project phases:**

- Technical study and scoping
- Feasibility study
- Project management
- Design
- Validation
- After sales service

**COST-LEADING DESIGN**

Through our design partners, we are able to offer comprehensive engineering services to class-leading HYDRO quality levels at a highly attractive price-performance ratio. Simple, time-intensive engineering services are delegated to proven offshore partners in cost-leading countries. Demanding, complex engineering services are provided by our own highly skilled development specialists. There are clear benefits for you in this flexible arrangement. Regardless of the degree of complexity involved, we are always able to offer you the best value for money. At the same time, we assume full responsibility at all times for the quality and reliability of services provided in this way, while passing on our cost savings to you in full.

**360° SERVICE AT ALL TIMES**

Naturally, you can fully rely on HYDRO even after your project has been completed. With our worldwide service network, we are always available for you, whatever you might need:

- Service centers worldwide
- On-site service
- Technical support
- Multi-manufacturer customer service
- Retrofitting and modification of existing equipment
- 10-year spare parts guarantee
- Training
- Financing solutions
The time and cost factors play a fundamentally central role in engineering projects. With our efficient project management, we give you the confidence of knowing that your projects will be properly processed, on time and on budget, exactly to your specifications. Working closely with you, precisely defined goals and project plans are rigorously implemented and subjected to continuous verification that they meet your requirements. In this way, our project management processes protect your personal resources and ensure the timely and cost-effective implementation of your project.

**HYDRO PROJECT MANAGEMENT**

- Definition of project goals
- Project planning and structuring
- Resource management
- Definition of milestones
- Progress and cost monitoring

**REFERENCES**

**GROUND SUPPORT EQUIPMENT:**

**Main Landing Gear Trolley MLGT57-001**

The dolly was designed, developed and manufactured for the removal and installation of the A350-900 MLG without brake and wheels. All movements are electrically driven.

- **Date:** 2011
- **Customer:** Airbus France
- **Location:** Toulouse/France

**EJAL System - SG251-001**

This Electronic Jacking and Leveling System (EJAL) for helicopter is also usable for helicopter weighing. Jacking and weighing is possible in configuration with three or four jacks.

- **Date:** 2013
- **Customer:** Eurocopter
- **Location:** Donauwörth/Germany

**ENGINE TRANSPORTATION:**

**Split Engine Stand - SES**

HYDRO designed, developed and manufactured the split engine stand for the transport of the A350 Trent XWB by road, sea or air. The SES consists of a fascase and a core stand for the transport of the engine in split configuration.

- **Date:** 2011
- **Customer:** Rolls-Royce plc
- **Location:** Derby/United Kingdom

**FINAL ASSEMBLY LINE:**

**FAL Casa CN-235/C-295**

HYDRO designed, developed and manufactured the final assembly docks and handling equipment of the CN-235/C-295 military aircraft.

- **Date:** 2014
- **Customer:** Indonesian Aerospace
- **Location:** Bandung/Indonesia
  
  Also 2001-2008 for EADS CASA in Seville/Spain

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**FINAL ASSEMBLY LINE:**

**A400M FAL Station 35**

This test and assembly station was designed, developed and manufactured as part of the final assembly line of the Airbus A400M. HYDRO delivered over 75 devices for 5 out of 10 final assembly docks.

- **Date:** 2007
- **Customer:** Airbus Military
- **Location:** Seville/Spain

**GLOBAL EXPERIENCE**

Our decades of successful work for OEMs, airports, airlines and MROs has earned us a high degree of confidence within the industry worldwide. In addition to the legendary quality and durability of our “Made in Germany” products, our problem-solving skills for individual, customer-specific requirements have convinced our customers time and again.

Through countless specific system solutions in the areas of Maintenance Tooling, handling equipment and removal/ installation devices to complete final assembly, we are today able to master even the most demanding of challenges efficiently and at the highest level of quality.
INDIVIDUAL SYSTEM SOLUTIONS AT A GLANCE

- Customer-specific solutions from world renowned specialists
- Value Engineering for maximum customer satisfaction
- Worldwide engineering offices and service centers
- Sole supplier source for fastest reaction times
- Attractive financing models
- Top quality for rapid return on investment
- Cost efficiency through Design-to-Cost
- Professional project management
- Quality and reliability “Made in Germany”

IN SAFE HANDS.

Strong. Leading. Worldwide. HYDRO means innovation, quality and reliability for aircraft and engine manufacturers, MROs, airlines and airports around the world. From the development of turnkey system solutions through to the manufacture of Ground Support Equipment and Tooling, including a diverse range of services, we provide all your requirements from a single source.

As the global market leader, HYDRO sets the benchmark. With our highly experienced development teams, our wide-ranging innovative product portfolio, modern production facilities and class-leading supply chains, you get genuine quality from HYDRO. Precise, reliable and without costly interfaces. HYDRO is truly your “One Stop Shop”, a leader within its industry.

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HYDRO Malta
Service Center
Pro Tech Engineering Solutions Ltd. - Paola

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