NL Trade Mission USA

March 2011

Participants & Company Profiles







Introduction

Dear colleagues of American and Dutch Aerospace Industries,

Our nations share many interests in highly technological aviation programmes, both military and civil. It is therefore of utmost importance that delegates of both nation's industries meet to find common ground and to develop business. With this background, as Chairman of the Netherlands Aerospace Group (NAG), I feel honoured to lead a trade mission of Dutch Aerospace Industries to the United States of America in order to meet American counterparts.

In establishing personal relations and exchange experiences, we hope to develop business of mutual interest for American and Dutch companies. This trade mission is also a valuable opportunity to discuss further outlook of the aerospace market, which is currently in a difficult position worldwide.

Thanks to a thorough preparation, we look forward to an interesting and comprehensive programme. All members of the NAG trade mission to the U.S. are looking eagerly forward to extremely fruitful meetings with our highly esteemed counterparts in Georgia, Arizona and Texas.

D. Starink, Lieutenant-General (rtd)
Chairman of the Netherlands Aerospace Group







Table of contents

	Page
NL Participants	5
Airborne Composites	6
AmEuro Metals B.V.	7
Cimcool	8
Fokker Aerospace Group	9
KMWE Precision Systems & Precision Components	10
Logistiek Centrum Woensdrecht	11
NedAero	12
NLR	13
Price Waterhouse Coopers	14
Technobis	15
Netherlands Aerospace Group (NAG)	16
EVD Agency for International Business and Cooperation	17





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Airborne Composites

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Airborne Composites has a strong background in engineering and manufacturing composite components for aeronautic and space applications, with involvement in aircraft programmes such as the Airbus A380 & A350, Gulfstream G650 and Galileo, Sentinel and AstroTerra satellite programmes. With the available engineering, production and quality control capabilities, Airborne can offer integrated Design and Build programs for a large range of structural composite components. Furthermore the company is participating in international technology development programmes for future aircraft and space programmes, on topics such as fibre placement, RTM, thermoplastics and smart structures.

The company exists of two manufacturing facilities: one in The Hague, The Netherlands and one in Girona, Spain. Airborne was established in 1995 and has currently more than 140 employees. Airborne Composites has the following facilities:

- Clean room (1000 m2), assembly (4.000 m2)
- Ovens, autoclaves (largest 13.5 x 2.65 m)
- Discrete winding machine (thermoset and thermoplastic): 6 m length, 1,5 m diameter
- Continuous winding line (thermoplastic, 2 km pipe, 3,5" and 9" OD)
- Advanced Fibre Placement research set-up
- Automatic prepreg cutters
- CNC milling machines (largest, 7 x 3.5 m 5-axis)
- Laser projection
- Air-scan, 3-Dlaser tracker

The production processes of Airborne Composites include:

- Injection technologies (VARTM, RTM, RFI)
- Pre-preg autoclave / oven
- Winding (Thermoset and thermoplastic, discrete and continuous)
- Thermoplastic (Fibre placement, consolidation, welding)





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AmEuro Metals B.V. is the Dutch specialist in the sourcing of raw materials for the Aerospace and Defence Industries. With more than 25 years of experience in the supply and purchase of aerospace specification materials and forgings we can offer you: sourcing of various types and specs. of materials, ranging from 1 lbs to mill quantities. World wide 'door-to-door' deliveries including customs handling invoicing in all major currencies ultimate mix of purchasing and stocking materials to your material requirements for both short and long term projects expertise in doing business in Eastern Europe and Asia.

AmEuro Metals is specialised in supplying the following materials:

- Aluminum Alloys
- Titanium Alloys
- Stainless Steels (incl. precipitation hardenable)
- Alloy Steels
- Copper Alloys
- Carbon Steels
- Aluminum Bronze
- Copper-Nickel Alloys

in:

- Welding Wire
- Bars (round, square, flat and hollow)
- Sheet
- Plate
- Open Die Forgings (rings, discs, bars and flanges)

All materials are supplied to major Aerospace and Defence specification such as:

- AMS
- ASTM/ASME
- MIL
- Federal (QQ-A, QQ-S.)
- NACE
- Specific customer specifications and their European equivalents (e.g. BS, WL)

We offer additional heat treatments and UT-testing through well-known and independent testing houses. All materials are being delivered with full certification to guarantee 100% traceability. Besides standard stock sizes and materials we can offer cut-to-size bars, sheets and plates to optimize your processing requirements. Our forging program allows us to forge parts in either rough forged, rough turned or completely machined condition. AmEuro Metals is fully independent and always looking for the optimum in price, quality and reliability. Please contact our sales team for your further requirements





Cimcool

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Throughout its 40-year history Cimcool has been a leading worldwide specialist in the supply of metalworking fluids to the aerospace sector. Our success is built not just upon the continuous innovation and improvement of our products but also upon the continuing development of our people. This is achieved through close communication and co-operation with customers and suppliers.

Environmental issues, health & safety aspects and the drive to reduce total costs are key elements in the development of our products. Our research team is constantly looking for the new raw materials that will improve performance and give environmental benefits. We believe that this combination of elements makes us unique. Flexibility is another key factor in enabling us to meet the needs of our customers by reacting quickly to the ever-changing demands of our market. Cimcool offers a comprehensive range of products for each and every metal process, including metal removal or grinding, forming and cleaning.

Moreover, Cimcool develops products for specific industries. One of these is the aerospace industry, for which Cimcool fluids have proven to create substantial productivity improvements in demanding operations on high-tech materials such as nickel-based alloys and titanium. Cimcool has been granted with approvals by all of the leading manufactures, including Rolls-Royce, SNECMA, Pratt & Whitney, Boeing and Goodrich, to name a few.

Our customers can count on fluids with a long life, low consumption and, when applied correctly, lower tool costs. All in all, Cimcool products are very economical and reduce the total annual process costs.





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Fokker Aerospace Group develops and produces advanced components for the aviation and aerospace industry. It supplies lightweight aircraft components and energy distribution systems to leading European and American aircraft builders in both the civil and defence sectors. The group also provides integrated services to aircraft owners and users. In addition, Stork Aerospace produces electronic and mechanical components for third parties in the industrial market.





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KMWE is a reliable supplier and partner for the High Tech Equipment Industry and Aerospace. KMWE is specialized in the machining of functional critical Components and the assembly of fully tested mechatronics Systems. KMWE is a global player located in those regions, which are known for their High Mix, Low Volume, High Complexity industry. Our international customers are focusing on their core-competences and they rely on partners as KMWE for the outsourcing of the manufacturing activities. We support our customers with the (product) development, prototyping and series production, global supply chain management and the transfer of running programs to our subsidiaries in Turkey and Malaysia. More than 55 years of experience, over 300 motivated and well educated employees, an international supplier network and a continuous drive for Excellence enables us to fulfill the highest demands of our customers. Our technical specialists, supported by dedicated account teams and value engineers, not only realize the challenging logistic and quality requirements, they are also focused to secure the lowest Total Cost of Ownership during the total Product Life Cycle. Always on the cutting edge of excellence. We are proud of our prestigious customer base and the challenging products we supply in various markets like:

- Aerospace & Defence
- Medical & Diagnostics
- Semiconductor
- Industrial Automation

The strategy of KMWE is to service it's customers globally by offering local competences. New products will be developed with the customer and manufacturing and assembly processes are established and if needed transferred to local production sites always meeting the KMWE standards.

KMWE Netherlands

In the Brainport Eindhoven region, the technology centre of the Dutch HighTech industry and one of the most innovative regions in Europe, the headquarters and two production facilities are located. This is where KMWE originated and developed as a major player within the network of HighTech industries, institutes and universities.

KMWE Malaysia

In Penang, the equivalent of the American Silicon Valley in Asia, KMWE Malaysia is located. KMWE Malaysia was established in 2008 to expand KMWE's global activities and to be present in this fast growing and innovative region.

KMWE Turkey

In Eskişehir, the fast growing industrial area between Istanbul and Ankara, KMWE started in 2010 a Joint Venture with Coşkunöz Defense & Aerospace (CSH). CSH was established in 2007 for the machining of Aerospace parts in Turkey.





Logistiek Centrum Woensdrecht

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The responsibility of the Woensdrecht Logistics Establishment lies in the area of ensuring the availability of air-based and other weapon systems and ground-based communication systems for carrying out operational tasks. The establishment is responsible for the unkeep of air-based and other weapon systeems and ground-based systems. To meet those responsibilities, the establishment provides the required materiel and -in the area of ground-based systems- technical expertise. The LCW offers a one-stop service to its clients. It acts as a broker for upkeep for those maintenance tasks that it does not carry out itself. LCW supports users in ongoing optimisation in carrying out their tasks. The establishment comprises divisions in Woensdrecht, Rhenen, Dongen and Den Helder.





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NedAero Components is a fully approved EASA/FAA repair facility in Zevenaar, located near the city of Arnhem, in the Netherlands. Previously known as Simmonds Precision Support Center and at a later stage as BFGoodrich Aerospace and Schreiner "MRO" division, highly qualified technicians serve the aviation industry all over the world.

NedAero Components offers capabilities for component design, manufacturing, overhaul, repair and exchange of instrumentation for the Aerospace Industry, for both commercial and military customers.

Repair, Overhaul, Modification & Exchange

- Avionics, Ignition systems
- Liquid quantity measuring systems (Fuel, Water, Hydraulic)
- Torque/speed systems
- Static inverters, alphanumerical LCD panels/modules
- Anti-skid control systems
- Electromechanical actuators (Trim, Door, Rotary)
- Laserbased weapon simulator systems
- Special purpose electrical cables and junction boxes, etc
- Manufacturing Ground Support Equipment
- Electronic control units for fuel quantity measuring systems (NH90)
- Various electronic control units (Fuel control unit F16, ABS, Fokker)
- Product support AOG services
- Landing gear systems
- Sensor and integrated systems
- Safety systems
- Airframe, components, instruments and avionics

Services

- Supply of maintenance / flight crew and aviation specialists on temporary basis
- Field Service, training, technical assistance for civil & military related projects
- Product support for civil & military aircraft-instruments and avionics in Europe
- Bonded stores for contractor acquired property
- Production facilities qualified to AQAP/ISO standards
- Development of universal maintenance test systems





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The National Aerospace Laboratory NLR (Nationaal Lucht- en Ruimtevaartlaboratorium) is one of the Dutch Major Technological Institutes which perform a large part of the applied research in the Netherlands, each within its own specific technology field. As an independent non-profit organisation, NLR is the central institute for aerospace research in The Netherlands.

NLR's activities are market-oriented, independent, socially relevant and without profit priority. By acting so, NLR can adequately respond to the need for scientific knowledge and technology in the field of aviation and space travel, which arises from the government, public and industry. Thus being the natural partner for aerospace research.

Work under research contracts (national and international, government and industry) amounts to 75 percent of NLR's activities, the remaining 25 percent is funded by the Dutch government for basic demand-oriented research programmes and development of research equipment. Depending on the project and the customer's preferences, NLR acts as a sole contractor or as a subcontractor cooperating with other institutes or partners from industry.

A staff of approximately 700 people is employed at two sites, one located in Amsterdam, and the other in the Noordoostpolder (about 100 km north-east of Amsterdam). Over two-thirds of the staff are graduates from universities or technical colleges, with a large variety in specialised professions such as aircraft engineers, psychologists, mathematicians and physicists. This variety is necessary for ensuring the broad expertise that is needed for coping with mostly challenging problems in the aerospace sector. Research and development work is carried out on a project basis with great synergy between divisions and departments. Strong emphasis is laid on a customer oriented approach.

NLR has a number of specialised research facilities such as flight simulators (NSF), Air Traffic Control Simulators (NARSIM), two research aircraft, and test installations for structures and materials (including composites). The NLR wind tunnels are operated together with the German Aerospace Center DLR through the foundation German-Dutch Wind Tunnels (DNW) in which NLR and DLR equally participate. On behalf of the Netherlands government, NLR also takes part in the cryogenic European Transonic Wind Tunnel (ETW) in Cologne (Germany), together with the Defence Evaluation and Research Agency (DERA, United Kingdom), the Office National d'Etudes et de Recherches Aérospatiales (ONERA, France), and the German Aerospace Center (DLR, Germany).

Also NLR participates in several specific alliances with other international institutes: AT-One is a close cooperation between NLR and DLR on Air Traffic Management E2CM is an alliance between NLR, DLR and ONERA on design and manufacture of high accuracy cryogenic wind tunnel models.





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Creating relationships that create value

PwC is one of the world's largest providers of assurance, tax, and business consulting services. We believe that the best outcomes are achieved through close collaboration with our clients and the many stakeholder communities we serve. So every day, 161,000 PwC people in 154 countries work hard to build strong relationships with others and understand the issues and aspirations that drive them.

At PwC, we measure success by our ability to create the value that our clients, our people and the wider investing public are looking for

The power of the PwC brand is inextricably linked to the success of our relationships. Both with our clients—how we listen to them, understand their goals, and help them create lasting value—and with our people, who, now more than ever, are the source of competitive advantage.

Another key brand attribute is independence of mind. That independence — and the straight talk that goes with it—is not only critical to our role as auditors; it permeates every facet of our business, and of our people's ethic.

We're one of the largest employers in the world. We focus on our people's careers with the same intensity we apply to meeting our clients' needs. We know that excellence, like value, is measured by more than numbers.

Network governance

Sound governance and transparency form the bedrock of leadership. At PwC, we are committed to serving as a force for integrity, good sense and wise solutions to the problems facing businesses and the capital markets today. Transparency and good standards of corporate governance — both in our clients' businesses and in our own — are central to our ability to achieve those objectives. We aim to continue to achieve them from a position of strength as a leader in our profession.





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Technobis Fibre Technologies (TFT) is a company within the Technobis Group and is specialized in the development and supply of high speed / multi sensor fibre interrogator modules and sensors.

'Let fibre optics rule in fast, dynamic applications'

Technobis Fibre Technologies was founded in 2006 and focusing on the development of a high speed multi sensor / multi channel system for FBG interrogation to expand the use of FBG up to the audible sound making it suitable for research on resonances and eigen frequency responses in high demanding environments.

The development resulted in the Deminsys 850nm, 19,3 kHz FBG interrogator system with max. 32 sensors.

Deminsys is the fastest multi sensor / multi-channel FBG interrogator system in the market and that means it is very suitable for several fast, dynamic applications. By having multiple sensors per fibre you can create a very compact network of sensors. Due to its revolutionary (light weight,

compact and solid state) design, Deminsys seems to fit perfectly into (research) programs for aerospace, medical & life science, industrial, maritime and crash test applications.





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Mr. D. Starink - Chairman of the board

Mr. A. Kolcuoğlu – NAG Represenative Turkey Mr. R. Dubelaar - Manager International Events

The Netherlands Aerospace Group (NAG)

The Netherlands Aerospace Group is the National Association of Aerospace Companies and Organisations engaged in education, R&D, engineering, manufacturing and Maintenance Repair and Overhaul of civil and military equipment. Members improve their business position by being part of an active association that incorporates over 95% of the Dutch Aerospace Industry.

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The NAG supports the members in developing business globally by:

- Organising national pavilions at major airshows and conferences;
- Acting as a National Point of Contact for international customers looking for suppliers and partners in the Netherlands;
- Representing the Dutch aerospace industry towords the Dutch government;
- Organizing international trade missions and matchmaking events
- Actively scanning the global market for business opportunities.

Since 2009 the Netherlands Aerospace Group has opened a representative office in Izmir, Turkey. The NAG Turkey rep. office will offer local support for those members seeking colaboration with the Turkish aerospace industry. The office is represented by Mr. Aykut Kolcuoglu.





EVD

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EVD

The Agency for International Business and Cooperation (EVD) is a bureau of the Ministry of Economic Affairs. It is the central organ of the Dutch government responsible for promoting the international presence of Dutch companies in foreign markets and for supporting private sector development in emerging markets. The agency provides Dutch companies with information and services critical for the pursuit of new opportunities in all markets. Additionally, it also provides financial support for activities contributing to sustainable private sector development in emerging markets.

Expertise

The agency's staff has in-depth knowledge of international markets and is well positioned to bring Dutch companies in contact with international trade experts, decision makers, potential customers and partners in overseas markets. Through its international network, website and database, the Agency - acting closely with the Dutch Diplomatic Missions and Netherlands Business Support Offices - is able to provide useful business leads and contacts. In addition, the Agency supplies detailed information regarding the Dutch economy.

Activities

Each year the EVD organizes approximately 60 major international promotional events; for example by participating in trade shows and organizing internal and external trade missions. A central element of these missions is matchmaking; a process via which Dutch enterprises are introduced to others in the European Union and throughout the rest of the world. These activities are often organized in co-operation with Dutch trade and industry associations and are generally focussed on specific economic sectors.



