

## **On-line Catalogue of Small Companies (potentially SMEs) which participated at the Industry Space Days**

***(held at ESTEC on 27 May 1999)***

The first edition of the Industry Space Days (ISD) took place at ESTEC on 27 May 1999. The event gathered Major Space Groups and SMEs (Small and Medium-sized Enterprises) from the ESA Member and Associated States. These first ISD were organised in the framework of the SME initiative of ESA.

The concept of ISD consists in convening SMEs and Major Space Groups for pre-arranged working meetings, organised around selected technological topics. This first ISD was not focused on a specific technology, but considered all generic technologies applicable to space.

A printed Catalogue of Participating companies (SMEs and Major Space Groups) was published and distributed for the event.

**You will find below an on-line excerpt of the ISD Catalogue, containing the summary descriptions and basic data provided by the Small Companies (potentially SMEs) (1) which participated at the Industry Space Days.**

***(1) It is worth mentioning that, in order not to overload the organisation of the ISD, Small companies were not requested to provide written justification of their compliance with the SME definition criteria of ESA. Therefore, for new companies, not yet registered in the List of Potential Bidders of ESA, this justification should be provided in order to further benefit from the ESA measures for SMEs.***

**Consequently, two types of companies can be distinguished below:**

- **Companies already included in the List of Potential Bidders of ESA, and which satisfy the SME definition criteria of the Agency (Note: this list is available on-line in the Main Menu of EMITS): They are highlighted in the catalogue below by an asterisk (\*) after their name**
- **Companies not yet included in the list of ESA potential bidders, and therefore for which there is no certainty that they fully comply with the SME definition criteria of ESA. Due justification should be provided by them in case they are included in an industrial tender.**

**Very important: The content of the Description sheets of the companies was prepared by the companies themselves when submitting their application to the ISD. The Executive cannot enter into any correspondence concerning the content of this catalogue, which is provided for Information only.**

## *The Netherlands*

PO Box 3639  
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Telephone + 31 53 433 6633  
Fax + 31 53 433 6869  
E-mail [henk.leeuwis@3t.nl](mailto:henk.leeuwis@3t.nl)  
Web site [www.3t.nl](http://www.3t.nl)

Date company established **NA**  
Employees **40**  
Annual sales **2600 kEuro**  
Export sales **100 kEuro**

## main activity

Development of measurement and control products and systems  
Sensors and microsystems  
Embedded systems  
Technical PC software

### competitive edge / company strengths

Microsystems/sensors development in co-operation with MESA Research Institute of University of Twente

## *Contact*

**Mr. Henk Leeuwis**  
*Head*

# ACRI (\*)

*France*

260, route du Pin Montard  
BP 234  
06904 Sophia Antipolis Cedex  
Telephone + 33 4 92 96 75 00  
Fax + 33 4 93 95 80 98  
E-mail acri@acri.fr  
Web site www.acri.fr

Date company established **1989**  
Employees **30**  
Annual sales **2,3 MEuro**  
Export sales **1,6 MEuro**

## main activity

Hydrodynamic  
Environmental studies  
GPS applications  
EO instrument data processing  
EO data chain simulation  
EO Mission analysis  
EO data applications

### competitive edge / company strengths

Develop EO services under EC contracts  
Develop operational interpretation tool for EO

## *Contact*

**Mr. Michel Morel**  
*Space Activity Responsable*

# Acsion Industries Inc.

## *Great Britain*

Mountbatten House, Fairacres  
Windsor, Berks, SL44LE  
Telephone + 44 175 362 0022  
Fax + 44 175 362 0011  
E-mail pf76@dial.pipex.com  
Web site www.acsion.com

Date company established **1998**  
Employees **10**  
Annual sales **NA**  
Export sales **NA**

## main activity

Electron beam curing of composites  
Development of resins  
Development of adhesives  
Consultancy in composite manufacturing  
Production runs  
Product development  
Design co-operation

### competitive edge / company strengths

Revolutionary technology (no autoclaves)  
Manufacturing costs reduced (25 to 60%)  
Development cost reduced (90 to 95%)  
No limit on part sizes  
Manufacturing facility  
Curing at room or other temperature  
Short curing time  
Volatiles reduced  
Better resin stability  
Complete lab / test support  
Engaged on major USA space programs

## *Contact*

**Mr R. W. Laing**  
*International Business Development Director*

# ADV Engineering (\*)

*France*

PT du Canal, 16, avenue de l'Europe  
31520 Ramonville  
Telephone + 33 5 62 19 04 44  
Fax + 33 5 62 19 03 54  
E-mail bousquet@adv.fr  
Web site www.adv.fr

Date company established **1991**  
Employees **10**  
Annual sales **869 kEuro**  
Export sales **427 kEuro**

## main activity

Microelectronics development  
System studies

### competitive edge / company strengths

A team of highly qualified engineers  
8 years experience in ASIC & FPGAs development  
Development according to ESA quality rules  
ASSP product development and long term user support

## *Contact*

**Mr R. Bousquet**  
*Manager*

# Advanced Photonic Systems

## *Germany*

Rudower Chaussee 6  
Photonic Center  
12489 Berlin  
Telephone + 49 30 6392 6520  
Fax + 49 30 6392 6521  
E-mail [aphs@compuserve.com](mailto:aphs@compuserve.com)  
Web site [www.aphs.de](http://www.aphs.de)

Date company established **1996**  
Employees **10**  
Annual sales **1,5 MEuro**  
Export sales **1,05 MEuro**

## **main activity**

Turn key laser systems for ps/fs pulses  
Ultrafast Photodetectors  
Diode pumped solid state laser (ir/vis/deep-blue)  
Diode lasers and diode laser systems  
Fiber laser  
Fast electronics  
Under development: laser surface cleaning system

### **competitive edge / company strengths**

Experience in turn-key laser systems  
Developments of ultrafast electronics  
Development contracts (with space industry e.g.)  
Customised systems

## *Contact*

**Dr. Wilfried Bauer**  
*Marketing Director*

# Advent Communication

## *Great Britain*

Nashleigh Hill  
Chesham  
Buckinghamshire, HP5 3HE  
Telephone + 44 1494 774400  
Fax + 44 1494 791127  
E-mail [steve.mcguinness@advent-comm.co.uk](mailto:steve.mcguinness@advent-comm.co.uk)  
Web site [www.advent-comm.co.uk](http://www.advent-comm.co.uk)

Date company established **1987**  
Employees **180**  
Annual sales **35,1 MEuro**  
Export sales **27,7 MEuro**

## main activity

Design manufacture and sales of satellite earth station systems and products

### **competitive edge / company strengths**

Innovative, high quality, reliability, approachable, reactive, strong after sales engineering/technical support, turn-key systems, installation capability any where in the world

## *Contact*

**Mr. Steve Mc Guinness**  
*Director*

# AER/Atmostat (\*)

## *France*

29, rue René Hamon  
94815 Villejuif Cedex  
Telephone + 33 1 46 77 67 27  
Fax + 33 1 46 78 18 11  
E-mail aer@wanadoo.fr

Date company established **1976**  
Employees **70**  
Annual sales **7,6 MEuro**  
Export sales **2,3 MEuro**

## **main activity**

Optoelectromechanical flight devices  
Space experiments  
Pressurised systems and propulsion components  
Very light weight high stiffness structures  
Thermal central components

### **competitive edge / company strengths**

Aluminium and beryllium structures and devices  
Miniaturised electromechanical components

## *Contact*

**Mr. Jean Benoit**  
*Development & Business Manager*

# Angelantoni Industrie SpA

## *Italy*

Localita Cimacolle  
06056 Massa Martana (PG)  
Telephone + 39 075 89 551  
Fax + 39 075 89 55 200  
E-mail [info@angelantoni.it](mailto:info@angelantoni.it)  
Web site [www.angelantoni.it](http://www.angelantoni.it)

Date company established **1932**  
Employees **230**  
Annual sales **40 MEuro**  
Export sales **24 MEuro**

## main activity

Environmental testing equipment  
Space simulation  
Accelerated life test equipment  
Electronics assembling

### competitive edge / company strengths

Design flexibility  
Systems integration  
High vacuum technology  
Competitive pricing  
World wide assistance network

## *Contact*

**Mrs. Italo Rossini**  
*Marketing Manager*

# ARC Canada

## *Canada*

165 Frobisher Dr.  
Suite 616  
Pointe Claire, Quebec H9R 4R8  
Telephone + 1 514 697 7023  
Fax + 1 514 697 4957  
E-mail [zdu@videotron.ca](mailto:zdu@videotron.ca)  
Web site [pages.infinit.net/arc/ARC.htm](http://pages.infinit.net/arc/ARC.htm)

Date company established **1997**  
Employees **2**  
Annual sales **NA**  
Export sales **NA**

## **main activity**

S/C thermal control systems  
Space electronic equipment thermal control

### **competitive edge / company strengths**

Previously complete program experience with Canadian Radarsat Spacecraft thermal design, analysis and thermal vacuum testing  
First-hand experience with Japanese space programs

## *Contact*

**Mr. Zhangong Du**  
*Branch Manager*

# Argoss

## *The Netherlands*

PO Box 61  
8325 ZH Vollenhove  
Telephone + 31 527 242299  
Fax + 31 527 242016  
E-mail [info@argoss.nl](mailto:info@argoss.nl)  
Web site [www.argoss.nl](http://www.argoss.nl)

Date company established **1995**  
Employees **10**  
Annual sales **NA**  
Export sales **NA**

## main activity

Information about the coastal and ocean environment: seabed topography, wind and wave climate, water quality...  
R&D services: developing concepts, techniques and software to utilize measurement data for various purposes such as bathymetric surveying...  
Advisory and support: e.g. climate assessment, risk analysis, market surveys, policy and strategy

### competitive edge / company strengths

Staff and expertise: well experience in developing and providing professional, operational and commercial EO based services and products towards governmental and commercial clients in the coastal and offshore community  
Products: ARGOSS has products developed and available which are being used operationally by governmental and commercial users  
Informal internal structure which offers opportunities to react fast on new market development  
Strategic alliances with R&D organisations to develop commercial products and services fast and less expensive  
Strategic alliances to integrate EO based products into the market

## *Contact*

**Mr G.Y. Wensink**  
*Managing Director*

# ART-Photonics GmbH

## *Germany*

Photonic Center  
Rudower Chaussee 6  
12489 Berlin  
Telephone + 49 30 6392 6828  
Fax + 49 30 6392 6528  
E-mail artphotonics@vossnet.de

Date company established **1998**  
Employees **8**  
Annual sales **0,6 MEuro**  
Export sales **0,5 MEuro**

## main activity

Special fiber optics cables  
Polycrystalline infrared (PIR-) fiber for 4-18  $\mu\text{m}$   
Metal coated silica fibers for  $>600\text{ }^{\circ}\text{C}$   
PIR-fiber pig-tailed HgCdTe-detectors  
Yb-doped fiber laser  
PIR-fiber delivery for CO<sub>2</sub>-lasers  
PIR-fiber probes for remote FTIR- and TDL-spectroscopy

### competitive edge / company strengths

>20 years in development & production of PIR-fibers  
Unique Me-coated (Al, Cu, Ni, Au) silica fibers  
Development contracts with space industry  
Customised system

## *Contact*

**Dr. Slva Artjushenko**  
*President*

# Atermes (\*)

*France*

4, avenue des Trois Peuples  
78180 Montigny le Bretonneux  
Telephone + 33 1 30 12 01 40  
Fax + 33 1 30 60 04 03  
E-mail [atermes@atermes.fr](mailto:atermes@atermes.fr)  
Web site [www.atermes.fr](http://www.atermes.fr)

Date company established **1989**  
Employees **120**  
Annual sales **11 MEuro**  
Export sales **0,76 MEuro**

## main activity

Electronics  
Mechanics  
Optics  
Software engineering  
Engineering design  
CAD development  
Manufacturing  
Testing and integration

### competitive edge / company strengths

Technical skills in space activities (lab experts, CAD specialists, qualified operators, appropriate manufacturing mean, 10 000 class clean room, impregnation room)

## *Contact*

**Mr Dominique Plat**  
*Managing Director*

# AXS-Analyse de structures

## *France*

Le Vaisseau  
120 bd Amiral Mouchez  
76600 Le Havre  
Telephone + 33 2 35 24 76 73  
Fax + 33 2 35 24 76 05  
E-mail [axs@club-internet.fr](mailto:axs@club-internet.fr)

Date company established **1998**  
Employees **4**  
Annual sales **150 kEuro**  
Export sales **NA**

## main activity

Structural analysis  
Finite elements analysis  
Aircraft structure stress analysis  
Space structure stress analysis  
Mechanical component stress analysis

### competitive edge / company strengths

Integration of complex finite element models  
Dynamic analysis  
Fatigue and damage tolerance analysis  
Composite material structural analysis  
Aeronautic certification (JAR/FAR 25)

## *Contact*

**Mr. Foad Elbaroudi**  
*General and sales manager*

# Brockmann Consult (\*)

## *Germany*

Max Planck Strasse 1  
21502 Geesthacht  
Telephone + 49 4 152 87 1456  
Fax + 49 4 152 87 1455  
E-mail [brockmann@gkss.de](mailto:brockmann@gkss.de)  
Web site [www.brockmann-consult.de](http://www.brockmann-consult.de)

Date company established **1994**  
Employees **4**  
Annual sales **500 kEuro**  
Export sales **150 kEuro**

## main activity

Geo-data processing  
Software development  
Data base applications  
Scientific consulting  
Processor development

### competitive edge / company strengths

Object oriented software developments  
Oracle DBMS + Tools  
Project management  
Optical remote sensing

## *Contact*

**Mr. Carsten Brockmann**  
*Managing Director*

# C-MAC/CEPE

## *France*

44, avenue de la Glacière  
BP 165  
95105 Argenteuil Cedex  
Telephone + 33 1 39 98 36 33  
Fax + 33 1 39 98 36 50  
E-mail fredericfaillet@france.cfpwww.com  
Web site

Date company established **NA**  
Employees **135**  
Annual sales **12,2 MEuro**  
Export sales **NA**

## main activity

CEPE a world leader in the design and manufacture of very high stability oven-controller crystal oscillators, recently joined the CFP group, bringing a complete range of piezoelectric components to the frequency market  
CEPE has built up unrivaled expertise in the manufacture, cutting, metallization and mounting of high-stability of SC cut quartz crystals; its skills also include yhe thermal optimisation of oscillator circuitry, components layouts and oven and PCB materials

### competitive edge / company strengths

CEPE has developed specific materials and crystal mounting technology for the demanding requirements of space, with a dedicated team serving all customers in this industry. The company wporks closely with French space agency CNES, Alcatel, Detexis, Matra Marconi Space and other leaders to develop new space technologies

CEPE has already supplied Ultra Stables Oscillators for a number of satellites, including the Polar Platform (PPF), Telecom 2D, Envisat/Doris, Stentor and Insat 2 and has been choosen for current and future programs such as Dorls/Jason, Rosetta, Insat 3, Spot 5 and Helios 2

## *Contact*

**Mr. Frédéric Faillet**  
*Space Sales & Marketing*

# CAEN (\*)

## *Italy*

Via Vetraia, 11  
55049 Viareggio (LU)  
Telephone + 39 0584 388398  
Fax + 39 0584 388959  
E-mail [petroni@caen.it](mailto:petroni@caen.it)  
Web site [www.caen.it](http://www.caen.it)

Date company established **1979**  
Employees **90**  
Annual sales **7,4 MEuro**  
Export sales **2,9 MEuro**

## **main activity**

Digital and analogue front end electronics  
High and low voltage power supply systems  
Digital and analog ASIC design  
Atomic mass spectrometers  
Networking software development and Internet services

### **competitive edge / company strengths**

Custom developments  
Cost effective space electronics  
World leadership in high energy physics instrumentation  
Pluriennial experience in high voltage systems for H.E.P. (up to 20kV)  
Rad-tolerant and rad-hard ASIC design

## *Contact*

**Mr. Francesco Petroni**  
*General Manager*

# Callisto (\*)

## *France*

35, grand Rue  
11320 Labastide d'Anjou  
Telephone + 33 4 68 60 17 47  
Fax + 33 4 68 60 17 46  
E-mail [steve.rawson@callisto-space.com](mailto:steve.rawson@callisto-space.com)  
Web site [www.callisto-space.com](http://www.callisto-space.com)

Date company established **1993**  
Employees **4**  
Annual sales **200 kEuro**  
Export sales **200 kEuro**

## main activity

Consultancy - Satellite communications  
Consultancy - Ground Stations  
Consultancy - RF / Demod / Baseband  
Consultancy - Systems engineering  
R&D - Cryogenic low noise amplifiers  
R&D - Noise measurement equipment  
R&D - Ground station equipment

### competitive edge / company strengths

20 years experience ground station development  
Track record - ESA studies in both prime and sub roles  
Specific expertise - cryogenic / RF design  
Specific knowledge - ESA ground segment

## *Contact*

**Mr. S. Rawson**  
*Director*

# Captec (\*)

## *Ireland*

3 St James Terrace  
Malahide, Co Dublin  
Telephone + 353 1 84 50 921  
Fax + 353 1 84 50 136  
E-mail mail@captec.ie  
Web site www.captec.ie

Date company established **1979**  
Employees **20**  
Annual sales **NA**  
Export sales **NA**

## **main activity**

Development of critical on-board application software for satellite sub-systems  
Development of operating system software for on-board satellite environments  
Independent software validation of on-board software  
On-board image processing and image compression applications for payload, storage & sub-systems  
Pre-launch satellite integration & test activities  
R&D of advanced Man-Machine interface for flight deck instruments, air traffic control workstations & simulators  
Flight dynamics support for satellite operations  
Medical imaging & teleradiology

**competitive edge / company strengths**

## *Contact*

**Mr. Fred Kennedy**  
*Managing Director*

# Carlo Gavazzi Space SpA (\*)

## *Italy*

Via Gallarate 139  
20151 Milano  
Telephone + 39 02 380481  
Fax + 39 02 3086458  
E-mail [cgamkt@cgspace.it](mailto:cgamkt@cgspace.it)  
Web site [www.cgspace.it](http://www.cgspace.it)

Date company established **1987**  
Employees **100**  
Annual sales **12,9 MEuro**  
Export sales **7,7 MEuro**

## main activity

LEO infrastructures & ISS utilisation  
Small satellites  
Telecommunication services  
HW and SW products for space systems  
Ground stations  
Ground support equipment

### competitive edge / company strengths

Mini satellites  
Facilities for micro-gravity  
Power electronics  
On board computers  
Data compression electronics

## *Contact*

**Mr. Lanfranco Zucconi**  
*Managing Director*

## *The Netherlands*

PO Box 12  
5670 AA Nuenen  
Telephone + 31 40 283 44 05  
Fax + 31 40 283 71 35  
E-mail [harry.willemsen@CCM.nl](mailto:harry.willemsen@CCM.nl)

Date company established **1969**  
Employees **90**  
Annual sales **7,7 MEuro**  
Export sales **1 MEuro**

## main activity

CCM carries out industrial research, design and development projects. The main fields of activity are:

- Product development
- Automation of product processes
- Signal processing and measurement systems
- Electronic control systems
- Space projects
- Energy and environment

### competitive edge / company strengths

CCM carries out development projects for many different industries, always in close co-operation with the customer

CCM's project managers are able to quickly understand the fundamental problems that have to be solved in a new development project

CCM is capable of creating innovative, cost effective solutions to complex technical problems

Projects are managed by multi disciplinary teams

CCM is capable to carry out a project completely, from the initial definition of the problem up to the installation of functioning equipment at the customer's premises

## *Contact*

**Mr. Harry Willemsen**  
*Program Manager*

# Cedrat Recherche SA (\*)

*France*

ZIRST  
38246 Meylan Cedex  
Telephone + 33 4 76 90 50 45  
Fax + 33 4 76 90 16 09  
E-mail frank.claeyssen@cedrat.com  
Web site www.cedrat.com

Date company established **1981**  
Employees **25**  
Annual sales **2 MEuro**  
Export sales **0,5 MEuro**

## main activity

Electric engineering (Hardware & software)  
Piezo actuators, motors, transformers, sensors  
Electromagnetic actuators, motors, sensors  
Electronics (driving & sensing & control)  
CAD software for electric engineering  
Modelling, design, prototyping & training  
Customised products  
Off-the shelf standard piezo products & electronics

### competitive edge / company strengths

Amplified piezo actuators (displ. of 0-500 $\mu$ m)  
Linear piezo motors (displ. of 0-100mm)  
Mechanisms (2-6 ddl) using piezo actuators  
Qualification of piezo products in progress  
ATILA: 3D FEM CAD for piezo active devices  
FLUX2D/3D: FEM CAD for electromagnetic devices  
Lab for electromechanical, vibration, magnetic tests  
20 years of experience in electric engineering

## Contact

**Mr. Frank Claeyssen**  
*Head of AMA Dept.*

## *Ireland*

Dunmore road  
Tuam, Co. Galway  
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Fax + 353 93 25 133  
E-mail [wkiefel@cel.ie](mailto:wkiefel@cel.ie)  
Web site [www.iol.ie/connaught\\_electronics\\_ltd](http://www.iol.ie/connaught_electronics_ltd)

Date company established **1982**  
Employees **160**  
Annual sales **21,2 MEuro**  
Export sales **19,7 MEuro**

## **main activity**

Electronic security products  
Vehicle location systems  
GPS navigation products  
Telemetry products

### **competitive edge / company strengths**

Highly innovative with high flexibility  
Proprietary technologies based on own patents

## *Contact*

**Mr. Wilhelm Kiefel**  
*Senior Manager*

# Centronic Ltd (\*)

## *Great Britain*

King Henry's Drive  
New Addington  
Croydon, CR90BG Surrey  
Telephone + 49 1689 808026  
Fax + 49 1689 845117  
E-mail bfahy@centronic.co.uk  
Web site www.centronic.co.uk

Date company established **1945**  
Employees **100**  
Annual sales **4,6 MEuro**  
Export sales **2,3 MEuro**

## main activity

Sensor design and manufacturer  
Silicon and diamond chip processing  
Packaging and test  
Sub-systems including signal processing

### competitive edge / company strengths

50 years in photonics/nucleonics  
Full custom design service  
Strong project management orientation  
New CVD diamond sensors  
Meteosat, Giotto, ERS etc... experience

## *Contact*

**Mr. Brendon A. Fahy**  
*Director*

# Century Dynamics Ltd (\*)

## *Great Britain*

Dynamics house  
Hurst road  
RH12 2DT Horsham, West Sussex  
Telephone + 44 1403 270066  
Fax + 44 1403 270099  
E-mail all@centdyn.demon.co.uk  
Web site www.centdyn.com

Date company established **1991**  
Employees **13**  
Annual sales **2,3 MEuro**  
Export sales **NA**

## main activity

AUTODYN-2D+3D hydrocode development  
Numerical methods development  
Material characterisation and modelling  
Engineering consultancy

### competitive edge / company strengths

Unique SPH capabilities of AUTODYN-2D+3D  
Hypervelocity impact experience  
World-wide contacts in space R&D

## *Contact*

**Mr. Colin J Hayhurst**  
*Managing Director*

# Cerobear GmbH (\*)

*Germany*

Kaiserstrasse 100  
52134 Herzogenrath  
Telephone + 49 2407 9556 0  
Fax + 49 2407 96224  
E-mail info@cerobear.de  
Web site www.zenit.de/cerobear

Date company established **1990**  
Employees **60**  
Annual sales **NA**  
Export sales **NA**

## main activity

Ceramic bearings  
Hybrid ceramic bearings  
Custom designed bearings  
Ceramic rollers and balls  
Bearing systems (spindles)  
R&D

### competitive edge / company strengths

Special bearings  
Small series  
Custom design  
Ceramic precision machining

*Contact*

Mr. Sternagel

## *Spain*

Paseo de John Lennon, s/n  
28906 Getafe (Madrid)  
Telephone + 34 91 624 01 04  
Fax + 34 91 624 01 14  
E-mail echamorro@cesa-sa.com

Date company established **1989**  
Employees **187**  
Annual sales **14,9 MEuro**  
Export sales **9926 MEuro**

## **main activity**

Flight controls  
Landing gear  
Thrust vector control  
Attitude control system  
Pneumatic systems  
Hydraulic systems

### **competitive edge / company strengths**

Advanced materials technology  
Advanced control systems technology  
Concurrent engineering

## *Contact*

**Mr. Eduardo Chamorro**  
*Technical and Commercial Director*

# COMAT (\*)

*France*

5 & 7, rue de Verdaillan  
31130 Balma  
Telephone + 33 5 61 24 26 16  
Fax + 33 5 61 36 51 25  
E-mail comat@iway.fr

Date company established **1997**  
Employees **35**  
Annual sales **2,4 MEuro**  
Export sales **0,18 MEuro**

## main activity

System engineering  
Design & calculation offices  
Mechanics & thermal & electronics  
Workshop & clean rooms  
Instruments - sub-systems  
Tooling - mini robotics  
On ground devices  
Elements of satellites

### competitive edge / company strengths

Project management  
Long space field experience  
Flexibility & reactivity & low costs  
CAD Catia & Euclid & NASTRAN  
CADM Catia  
ESA & CNES programs  
Many skills and experience  
In a SME (35p) on one site  
Peltier tec specialist

## *Contact*

**Mr. Marc Coppée**  
*Manager*

# ComSym Ltd

## *Great Britain*

7 & 8 Titmore Court, Titmore Green  
Little Wymondley  
SG4 7JT Herts  
Telephone + 44 1438 749889  
Fax + 44 1438 749890  
E-mail [graham.starkie@comsym.com](mailto:graham.starkie@comsym.com)  
Web site [www.comsym.com](http://www.comsym.com)

Date company established **1993**  
Employees **6**  
Annual sales **600 kEuro**  
Export sales **450 kEuro**

## main activity

Communication system design  
Satellite procurement/design support  
Satellite operations  
Ground networks & software

### competitive edge / company strengths

Strong analytical skills  
Cross-fertilisation from a diverse customer base  
Eurostar specialists  
Terrestrial, earth station, satellite skills

## *Contact*

**Mr. Graham Starkie**  
*Managing Director*

# CS Verilog

## *France*

150, rue Nicolas Vauquelin  
31106 Toulouse  
Telephone + 33 5 61 19 29 39  
Fax + 33 5 61 40 84 52  
E-mail [verilog@verilog.fr](mailto:verilog@verilog.fr)  
Web site [www.verilogusa.com](http://www.verilogusa.com)

Date company established **1984**  
Employees **100**  
Annual sales **11,1 MEuro**  
Export sales **6,5 MEuro**

## main activity

Software engineering solutions and tools

### competitive edge / company strengths

Focused on real-time software  
About 15,000 licenses sold  
International company  
Tools increasing quality and productivity  
Formal methods - code generation

## *Contact*

**Mr. Jean Dufau**  
*Marketing Sales*

# Cybernetix

## *France*

Technopôle de Château-Gombert  
13382 Marseille Cedex 13  
Telephone + 33 1 69 35 68 00  
Fax + 33 1 69 85 36 92  
E-mail robotic.saclay@cybernetix.fr

Date company established **1985**  
Employees **232**  
Annual sales **30 MEuro**  
Export sales **NA**

## **main activity**

Automated systems for smart card production  
Sorting machines for postal services  
Teleopertaion and mobile robots  
Hyraulic and electrical manipulators  
Optics and industrial vision

**competitive edge / company strengths**

## *Contact*

**Mr. Luc Jourdier**  
*Project Engineer*

# Dateno

## *France*

Rue Amiral Berenger  
ZAC Es-passants - BP 123  
35801 Dinard  
Telephone + 33 2 99 46 24 75  
Fax + 33 2 99 46 47 27  
E-mail dateno@europost.org

Date company established **1975**  
Employees **50**  
Annual sales **5,5 MEuro**  
Export sales **1,5 MEuro**

## main activity

Satellite earth stations  
Equipment for earth stations  
High power amplifiers (HPA)  
Satellite receivers (RCVR)  
RF subsystems

### competitive edge / company strengths

HPA: SSPA or TWTA on KPA  
RCVR: multimedia digital receivers  
From 1,5 GHz to 45 GHz technology  
Ka band earth station products  
TTC and IOT specialisation

## *Contact*

**Mr. L'Honnen**  
*General Manager*

# Delft Electronic Products bv

## *The Netherlands*

Durazziewegen, 2  
9301 2R Roden  
Telephone + 31 50 5018 808  
Fax + 31 50 5011 456  
E-mail sales@dep.nl  
Web site www.dep.nl

Date company established **1969**  
Employees **115**  
Annual sales **15 MEuro**  
Export sales **13 MEuro**

## main activity

Production of image intensifiers  
Production of photon counters  
Production of low light level camera's  
Production of special detectors for space  
Design of custom made vacuum photon and X-ray detectors  
Production of solar blind detectors

### competitive edge / company strengths

Innovative  
Leading edge technology  
From prototyping to production  
Very good trade record in space projects  
Wide product range  
AQAP, MIL spec

## *Contact*

**Mr. R.J. Schomaker**  
*Manager Industrial Sales Europe*

# Detection Technology (\*)

## *Finland*

Micropolis  
91100 Li  
Telephone + 358 8 553 6600  
Fax + 358 8 553 6611  
E-mail info@deetee.com  
Web site www.deetee.com

Date company established **1991**  
Employees **99**  
Annual sales **2 MEuro**  
Export sales **NA**

## main activity

Silicon radiation detectors  
Silicon photodiodes  
Detector amplifiers  
Custom detector modules  
Detector electronics  
X-ray timer array detectors

### competitive edge / company strengths

High performance products  
Customisation  
High quality products  
Reliability  
Design expertise

## *Contact*

**Mr. Ilro Hietanen**  
*Director of R&D*

# Diginext

## *France*

Le Tertia II  
ZI des Milles  
13851 Aix-en-Provence Cedex 3  
Telephone + 33 6 60 70 40 43  
Fax + 33 1 47 50 32 08  
E-mail diginext@imagnet.fr  
Web site www.diginext.fr

Date company established **1996**  
Employees **20**  
Annual sales **1,4 MEuro**  
Export sales **NA**

## main activity

Specification and architecture of large systems in defence, transport, and telecommunication sectors  
Prototypes and demonstration systems

### competitive edge / company strengths

Non-linear filtering with random particle  
Application to VLF HF cellular systems  
LORAN-C / GPS Navigation systems  
System integration  
In home design

## *Contact*

**Mr. Michel Varale**  
*Sales Manager*

# Dune SRL (\*)

*Italy*

Via Tracia, 4  
00183 Roma  
Telephone + 39 06 704 512 52  
Fax + 39 06 772 009 19  
E-mail [dune@mclink.it](mailto:dune@mclink.it)  
Web site [www.mclink.it/com/dune](http://www.mclink.it/com/dune)

Date company established **1980**  
Employees **9**  
Annual sales **450 kEuro**  
Export sales **NA**

## main activity

Digital signal processing  
Wireless communications  
Remote sensing system design

### competitive edge / company strengths

Algorithms and DSP SW development  
Parallel, real-time and massive DSP architectures  
Simulation, systems analysis

*Contact*

Mr. Otello Gasparini

# Easics N.V.

## *Belgium*

Interleuvenlaan, 86  
3001 Leuven  
Telephone + 32 16 395602  
Fax + 32 16 395619  
E-mail ivo@easics.be  
Web site www.easics.com

Date company established **1992**  
Employees **19**  
Annual sales **1,85 MEuro**  
Export sales **NA**

## main activity

Digital ASIC design

### competitive edge / company strengths

Advanced design methodologies  
Design productivity  
Design quality  
Extensive track record  
System level expertise in telecommunication

## *Contact*

**Mr. Ivo Vandeweerd**  
*Business Development Manager*

# Easy Engineering Sprl

## *Belgium*

Rue Baudet, 7  
7090 Petit-Roeulx  
Telephone + 32 67 55 37 68  
Fax + 32 67 56 18 00  
E-mail [easy\\_engine@compuserve.com](mailto:easy_engine@compuserve.com)

Date company established **NA**  
Employees **3**  
Annual sales **NA**  
Export sales **NA**

## main activity

Structural mechanics  
Finite element analysis  
Design of structures fully analysed

### competitive edge / company strengths

Wide experience in structures (more than 15 years in the field) analysis (resistance, deformations, heat transfer...)  
Work with QA-covered analysis codes  
Experience in aeronautical field (Ariane 5)

## *Contact*

Mr.Arts

# Elco SPA

*Italy*

Loc. Fioretta  
00060 Capena Roma  
Telephone + 39 06 9038 801  
Fax + 39 06 9038 8064  
E-mail [leonip@elco-group.com](mailto:leonip@elco-group.com)  
Web site [www.elco-group.com](http://www.elco-group.com)

Date company established **1970**  
Employees **100**  
Annual sales **8,3 MEuro**  
Export sales **0,26 MEuro**

## main activity

Printed circuit board production

### competitive edge / company strengths

Quality  
Fast deliveries

## *Contact*

**Mr. Paolo Leoni**  
*Technical Marketing Manager*

# Engineering Solutions International Ltd (\*)

## *Ireland*

Howth Junction  
Busuiness Park  
Dublin 5  
Telephone + 353 1 839 2599  
Fax + 353 1 839 4296  
E-mail info@esil.ie  
Web site www.esil.ie

Date company established **1994**  
Employees **10**  
Annual sales **1,5 MEuro**  
Export sales

## main activity

Solar cells  
Thermal control  
Materials & processes  
Electromagnetics  
Thermal analysis  
Propulsion and aerothermodynamics  
Pyrotechnics  
Structural impact analysis

### competitive edge / company strengths

Accurate predictive modelling  
Wind tunnel for validation  
Custom built solvers  
Reduce costs and time  
Experience of space industry  
HPC platforms-Cray

## *Contact*

**Mr. Barry O'Reilly**  
*Managing Director*

# EREMS (\*)

## *France*

Chemin de le Madeleine  
ZI  
31130 Flourens  
Telephone + 33 5 61 30 06 06  
Fax + 33 5 61 83 99 45  
E-mail [erems@erems.fr](mailto:erems@erems.fr)  
Web site [worldserver.oleane.com/erems](http://worldserver.oleane.com/erems)

Date company established **1979**  
Employees **35**  
Annual sales **2,4 MEuro**  
Export sales **0,24 MEuro**

## main activity

Space electronics  
Space engineering  
Medical engineering  
Defence electronics

### competitive edge / company strengths

Scientific payload equipments  
Analog and digital electronics

## *Contact*

**Mr. C. Wintgens**  
*Managing Director*

# Eta Max Space GmbH (\*)

*Germany*

Rebenring, 33  
38106 Braunschweig  
Telephone + 49 531 3804 192  
Fax + 49 531 3804 199  
E-mail h.sdunnus@etamax.de  
Web site www.etamax.de

Date company established **1997**  
Employees **7+7 (part time)**  
Annual sales **500 kEuro**  
Export sales **NA**

## main activity

Software engineering  
Software verification and validation  
Risk assessment for satellites and space systems and mission due to space debris and meteoroids  
Mission analysis

### competitive edge / company strengths

Far reaching experience in all space relevant SW standards  
Proven scientific and engineering skills  
Experience in ESA projects(8), both ESTEC & ESCO  
Experience in industrial projects  
Experience in contractual management (tender phase, offers, documentation)

## *Contact*

**Mr. Holger Sdunnus**  
*Head Space activities*

## *France*

Centre d'affaires Grand Var  
Bat A  
83130 La Garde  
Telephone + 33 4 94 08 50 26  
Fax + 33 4 94 08 28 03  
E-mail info@etep.com  
Web site www.etep.com

Date company established **1979**  
Employees **10**  
Annual sales **610 kEuro**  
Export sales **NA**

## **main activity**

Manufacturer of electronic equipment  
Data recorder for PCM, analogic and numeric signal  
IRIG system  
Acquisition board up to 1 GHz  
VME system

### **competitive edge / company strengths**

Important knowledge in data recording up to 240Mbit/s and in data acquisition (up to 1 GHz)

## *Contact*

**Mr. Michel Planella**  
*Engineer*

# Eurocontrol SpA

## *Italy*

Via Varenna, 52A  
Genova  
Telephone + 39 010 6989877  
Fax + 39 010 6990001

Date company established **1970**  
Employees **45**  
Annual sales **5,2 MEuro**  
Export sales **1,5 MEuro**

## **main activity**

Design, development and manufacturing of tailored solutions in:

- electronics
- electromechanics
- optronics

### **competitive edge / company strengths**

Capability to work for comprehensive solutions  
Wide range of Know-how in electronics, electromechanics and optronics  
System engineering expertise  
After sales support world-wide  
Quality assurance qualification ISO 9001

## *Contact*

**Mr. Carlo Valdetaro**  
*Marketing Director*

# Exavision

## *France*

Mas de sagnier  
30900 Nimes  
Telephone + 33 4 66 29 61 01  
Fax + 33 4 66 29 24 70  
E-mail [mottin@exavision.fr](mailto:mottin@exavision.fr)  
Web site [www.exavision.com/exavision](http://www.exavision.com/exavision)

Date company established **1990**  
Employees **15**  
Annual sales **2 MEuro**  
Export sales **0,2 MEuro**

## main activity

CCTV Designers  
Vision systems & video probes  
Image processing  
Optics and oprtronics  
Visible & IR vision systems  
Ruggedized TV cameras  
On board miniature video probes  
TV systems for air flight testing

### competitive edge / company strengths

Video electronics  
3D image processing  
Optics and peripherals (robotics)

## *Contact*

**Mr. Francois Mottin**  
*Managing Director*

# GCS GmbH (\*)

## *Austria*

Jakob Haringerstrasse, 1  
5020 Salzburg  
Telephone + 43 662 450025  
Fax + 43 662 45 90 97  
E-mail office@gcs-salzburg.at  
Web site www.gcs-salzburg.at

Date company established **1996**  
Employees **8**  
Annual sales **400 kEuro**  
Export sales **400 kEuro**

## main activity

DVB/MPEG-2 solutions  
Datacast HW + SW  
SIMPLE software  
Consultancy  
Internet via satellite services  
Research & development  
Protocol engineering  
Application engineering

### competitive edge / company strengths

Long-term experience  
Industrial contacts  
First on the market  
Innovation  
Flexibility  
Generic products  
Enables technologies  
Open platforms

## *Contact*

**Mr. B. Collini-Nocker**  
*Managing Director*

# Groupe Dion

## *France*

ZAC de Valentin  
BP 3015  
25045 Besançon  
Telephone + 33 3 81 53 32 66  
Fax + 33 3 81 88 32 06  
E-mail eurodion@club-internet.fr

Date company established **1975**  
Employees **200**  
Annual sales **15,2 MEuro**  
Export sales **2,3 MEuro**

## main activity

Hydraulic products standard & design on customers request  
Standard hydraulic components as joints, valves, plugs

### competitive edge / company strengths

100% space & aeronautical industries  
Special products  
Design, manufacture, montage, testing, overhaul

## *Contact*

**Mr. Guillemin**  
*Export Manager*

# GSE srl

*Italy*

Viale del Vignola, 44  
00196 Roma  
Telephone + 39 06 322 2877  
Fax + 39 06 361 1715

Date company established **1991**  
Employees **63**  
Annual sales **5,3 MEuro**  
Export sales **0,53 MEuro**

## main activity

Production of precise machinery for turboengines  
Production of modular working platforms for aircrafts  
Final assembling of aircraft components  
Manufacturing of structural parts (laminated/machined) and spare parts for aircrafts and engines

### competitive edge / company strengths

Manufacturing and assembling of structural parts  
Design, industrialisation and manufacturing of tools  
Design, industrialisation and manufacturing of structural parts including final assembling

## *Contact*

**Mr. Roberto Salmoni**  
*Managing Director*

# Hightex Verstärkungs-strukturen GmbH

*Germany*

Hohe Strasse, 6  
01069 Dresden  
Telephone + 49 351 4658 423  
Fax + 49 351 4658 285  
E-mail feltin@argos.IPFDD.de

Date company established **1999**  
Employees **4**  
Annual sales **NA**  
Export sales **NA**

## main activity

Analysis and development of stress-field aligned preforms and components  
Mass production of stress-field aligned preforms and components

### competitive edge / company strengths

Using the new textile technique of "Tailored Fibre Placement (TFP)"

Advantages:

- tailored properties of composites to the condition of use
- total problem solutions from the load calculation through to composite production
- low cost production / high production rate and flexibility, enabling production on small or large scale
- total quality management/high reproducibility, integrated assessment and on-line production records
- new fibre varieties are suitable

## Contact

**Dr.-Ing. Dirk Feltin**  
*Board of Directors*

# Hirex Engineering

## *France*

117, rue de la Providence  
31500 Toulouse  
Telephone + 33 5 62 47 56 90  
Fax + 33 25 62 47 56 95  
E-mail francois-xavier.guene@hirexengineering.com

Date company established **1993**  
Employees **15**  
Annual sales **1,1 MEuro**  
Export sales **0,15 MEuro**

## main activity

EEE parts: electrical and reliability tools  
EEE parts: mechanical and environmental tools  
Radiation engineering and testing  
Construction analysis and DPAs  
Project and procurement support

### competitive edge / company strengths

Dedicated and involved in EEE parts for space applications for many years

## *Contact*

Mr. Francois-Xavier Guene

# Hypersonic Technology Göttingen (\*)

*Germany*

Max Planck Strasse 19  
37191 Katlenburg - Lindau  
Telephone + 49 5556 5025  
Fax + 49 5556 1885  
E-mail  
Web site

Date company established **1990**  
Employees **6**  
Annual sales **NA**  
Export sales **NA**

## main activity

Re-entry flight instrumentation  
Hypersonic wind tunnels  
Orbital-re-entry aerodynamics  
Spacecraft destruction during re-entry  
Nozzle and exhaust flow

### competitive edge / company strengths

Re-entry instrumentation  
Software for orbit disturbances due to aerodynamic/radiation forces  
Spacecraft re-entry destruction  
Plume-flows

## *Contact*

**Prof.-Dr. G. Koppenwallner**  
*Head*

# I2E

## *France*

Avenue Guillibert de la Lauzière  
BP 140000  
13794 Aix-en-Provence Cedex 03  
Telephone + 33 4 42 60 70 00  
Fax + 33 4 42 60 00 26  
E-mail i2e-aix@wanadoo.fr

Date company established **1979**  
Employees **115**  
Annual sales **12 MEuro**  
Export sales **2,5 MEuro**

## **main activity**

RF communication equipment  
Signal processing  
Spectrum control  
Electronic system  
Electronic design  
Test

### **competitive edge / company strengths**

Signal processing  
Electronic design  
Real time systems

## *Contact*

**Mr. Nieto**  
*Sales Engineer*

# IDS Ingeneria Dei Sistemi (\*)

## *Italy*

Via Livornese  
1019 San Piero a Grado (PI)  
Telephone + 39 050 3124 236  
Fax + 39 050 3124 201  
E-mail f.bessi@ids-spa.it  
Web site www.ids-spa.it

Date company established **1980**  
Employees **60**  
Annual sales **3,5 MEuro**  
Export sales **0,86 MEuro**

## main activity

Space EM studies  
Naval EMC studies  
Ground mobile radar systems design and development  
Air traffic management

### competitive edge / company strengths

Electromagnetic simulation  
Antenna design and integration on platforms  
Antenna design framework product  
Radar technology

## *Contact*

**Mr. Fulvio Bessi**  
*Space Division Manager*

# Ingenieursbureau Goedelta

## *The Netherlands*

Oude Delft, 175  
2611 HB Delft  
Telephone + 31 15 215 81 88.  
Fax + 31 15 215 81 54  
E-mail robert@goedelta.com  
Web site www.goedelta.com

Date company established **NA**  
Employees **8**  
Annual sales **726 kEuro**  
Export sales **254 kEuro**

## main activity

Image processing  
Digital photogrammetry  
Geodesy  
Reverse engineering  
3D contact-less measurements  
R&D  
Consultancy  
Software development  
Processing of data

## competitive edge / company strengths

Innovation driven  
Component based software development  
Statistical quality control techniques  
Team of high qualified technical people

## *Contact*

**Mr. R.J.G.A. Kroon**  
*Managing Director*

# Integrity Testing Laboratory Inc

## *Canada*

4925 Dufferin Street  
Downsview  
Ontario M3H 5T6  
Telephone + 1 416 667 7742  
Fax + 1 416 667 7799  
E-mail jkleiman@utias.utoronto.ca  
Web site www.itlinc.com

Date company established **1989**  
Employees **10**  
Annual sales **555 kEuro**  
Export sales **18,5 kEuro**

## main activity

Testing and characterisation of space and aerospace materials  
Surface modification of space-based materials  
R&D into basic problems of materials interaction with LEO  
NDT testing and predictive evaluation of performance  
Organisation of educational seminars and conferences

### competitive edge / company strengths

Theoretical predictions and evaluation of interaction of materials with LEO  
Proprietary technologies on surface modification of space bound materials  
Predictive software for evaluation of erosion yields in LEO  
New methodology and equipment on NDT measurement of residual stresses in materials and welded structures

## *Contact*

**Dr. Jacob Kleiman**  
*President*

# Irvin Aerospace

## *Great Britain*

Telephone + 44 1462 482000  
Fax + 44 1462 482007  
E-mail peterd@irvin.co.uk  
Web site www.irvin.co.uk

Date company established **1926**  
Employees **170**  
Annual sales **12 MEuro**  
Export sales **NA**

## main activity

Parachute systems  
Inflatable systems  
Design and analysis  
Testing and integration  
Production

## competitive edge / company strengths

Design pedigree  
Multi-national base  
Track record  
Name / branding

## *Contact*

**Mr. Peter G. Dixon**  
*Business Development Manager*

# ISIM International Simulation Ltd (\*)

## *Great Britain*

26/28 Leslie Hough way  
Salford M6 6AJ  
Telephone + 44 161 745 7604  
Fax + 44 161 736 2634  
E-mail johnp@cogsys.co.uk  
Web site www.cogsys.co.uk

Date company established **1989**  
Employees **5**  
Annual sales **100 kEuro**  
Export sales **65 kEuro**

## main activity

Dynamic simulation software  
Knowledge based systems

**competitive edge / company strengths**

## *Contact*

**Dr. John Pearce**  
*Research Director*

# Jehier Spatial

## *France*

Route de St Lezin  
49130 Chemille  
Telephone + 33 2 41 64 54 00  
Fax + 33 2 41 64 54 01  
E-mail jacques.maillard@jehier.fr

Date company established **1990**  
Employees **7**  
Annual sales **1,2 MEuro**  
Export sales **0,76 MEuro**

## main activity

Design and production of materials for thermal protection  
Design and production of thermal protection equipments (spacecraft re-entrance - high temperature thermal protection  
- cryogenic insulation)

### competitive edge / company strengths

Experience in aircraft industry  
Various technologies (metallic and non metallic insulation...)  
ISO9002 certification  
World-wide positioning

## *Contact*

**Mr. Jacques Maillard**  
*Managing Director*

# Kayser-Threde GmbH (\*)

*Germany*

Wolfrathauer Strasse, 48  
81379 München  
Telephone + 49 89 72495 234  
Fax + 49 89 72495 104  
E-mail [bg@kayser-threde.de](mailto:bg@kayser-threde.de)  
Web site [www.kayser-threde.de](http://www.kayser-threde.de)

Date company established **1967**  
Employees **210**  
Annual sales **30 MEuro**  
Export sales **NA**

## main activity

Scientific Payloads  
Optical systems  
Electronic systems  
Small missions  
Structures / mechanisms

### competitive edge / company strengths

Design, manufacturing  
Test of scientific  
Instrumentation

## *Contact*

**Mr. Bräunig**  
*Dir. Contacts / Ext. Relations*

# L-3 Storm Control Systems Ltd

## *Great Britain*

Suite 2, Nelson House  
Alington Road  
St Neots, Cambs, PE19 4YH  
Telephone + 44 1480 215300  
Fax + 44 1480 471300  
E-mail [jcater@storm.com](mailto:jcater@storm.com)  
Web site [www.storm.com](http://www.storm.com)

Date company established **1997**  
Employees **15**  
Annual sales **1,5 MEuro**  
Export sales **1,2 MEuro**

## main activity

Satellite command and control solutions  
Automated operations  
Graphical command procedure development  
Multi-satellite commanding  
Ground equipment control  
Telemetry processing, analysis and display  
Satellite test and integration

### competitive edge / company strengths

Advance COST products  
Reduced development schedules  
Easy and rapid customisation  
Multiple in-operation installations  
Minimal development costs

## *Contact*

**Mr. Jim Cater**  
*Director of UK Operations*

# Labcontrol GmbH (\*)

*Germany*

Max-Planck-Strasse, 17a  
50858 Köln  
Telephone + 49 2234 92070  
Fax + 49 2234 22311  
E-mail [tf@labcontrol.com](mailto:tf@labcontrol.com)  
Web site [www.labcontrol.com](http://www.labcontrol.com)

Date company established **1991**  
Employees **24**  
Annual sales **1,5 MEuro**  
Export sales **1 MEuro**

## main activity

Spectroscopy expert systems  
Custom software development  
Project management  
IT consulting  
Spectroscopy data base systems  
Process control  
Instrument control software  
Data visualisation

### competitive edge / company strengths

Strong scientific background  
>50% employees with aPh.D. in science  
Only one competitor world-wide  
ISO9001 quality management  
World-wide industrial partnerships  
Spectroscopic and electronic specialists  
All spectroscopic techniques  
Large project experience

## *Contact*

**Dr. Thorsten Fröhlich**  
*Managing Director*

# Laser Power Europe

## *Belgium*

Meersstraat, 138 E  
9000 Gent  
Telephone + 32 9 220 59 29  
Fax + 32 9 220 59 95  
E-mail lpe@glo.be  
Web site www.laserpower.com

Date company established **1990**  
Employees **12**  
Annual sales **4 MEuro**  
Export sales **3 MEuro**

## main activity

Manufacturing of laser optics  
Coating (AR, HR...) of infrared materials  
R&D on high power lasers

### competitive edge / company strengths

Infrared coatings  
High power lasers  
Laser optics

## *Contact*

**Mr. Peter Muys**  
*General Manager*

# Leuveco B.V.

*The Netherlands*

P.O. Box 58  
2860 AB Bergambacht  
Telephone + 31 182 353944  
Fax + 31 182 351928  
E-mail sales@leuveco.nl

Date company established **1974**  
Employees **12**  
Annual sales **1,36 MEuro**  
Export sales **0,91 MEuro**

## main activity

R&D - testing - production  
Spec. electrical connectors  
Fiberoptic connectors  
Ultrasonewelding plastics  
Ultrasonewelding metals  
Manufacturing cableharnesses

### competitive edge / company strengths

R&D  
Testing  
Ultrasonewelding plastics/metals  
Production

## *Contact*

**Mr. R.J. Van Der Linden**  
*Managing Director*

# Logsys Solutions Ltd (\*)

## *Great Britain*

Ashville Way, Wokingham  
Berkshire RG41 2PL  
Telephone + 44 118 277 4124  
Fax + 44 118 277 2506  
E-mail [simonb@logsys.co.uk](mailto:simonb@logsys.co.uk)  
Web site [www.logsys.co.uk](http://www.logsys.co.uk)

Date company established **1972**  
Employees **80**  
Annual sales **11,3 MEuro**  
Export sales **NA**

## main activity

Fixed price application development  
Oracle tools/DBMS development  
Informix tools/DBMS development  
Java development  
Staffware workflow solutions  
V-Basic development  
Support & maintenance legacy applications  
Business process automation consultancy

### competitive edge / company strengths

Workflow/business process automation expertise  
Strong track record of successful delivery  
History of on times within budget delivery  
Commitment to standards/quality  
Flexible approach to contract agreement

## *Contact*

**Mr. Simon Ball**  
*Sales & Marketing Director*

# LuraTech GmbH (\*)

*Germany*

Rotherstrasse, 20  
Haus 4  
10245 Berlin  
Telephone + 49 30 293 67 0  
Fax + 49 30 293 67 100  
E-mail Thierschmann@LuraTech.de  
Web site www.luratech.de

Date company established **1993**  
Employees **23**  
Annual sales **1,5 MEuro**  
Export sales **NA**

## main activity

Wavelet-based image compression  
Wavelet-based document compression  
Image processing and analysis  
Multimedia applications  
Related hardware development

### competitive edge / company strengths

Comprehensive know-how from 6-years of R&D work in image & video compression  
State-of-the-art high speed compression algorithms  
Development of specialised software and hardware applications  
Interdisciplinary fusion of image compression technologies and multimedia services

## *Contact*

**Mr. Michel Thierschmann**  
*General Manager*

# Mecanex SA (\*)

## *Switzerland*

Vuarpillière, 29  
ZI Nord  
1260 Nyon  
Telephone + 41 22 361 77 33  
Fax + 41 22 361 67 52  
E-mail info@mecanex.ch  
Web site www.mecanex.ch

Date company established **1959**  
Employees **38**  
Annual sales **5 MEuro**  
Export sales **2,1 MEuro**

## main activity

Sliprings for all applications  
Precision mechanisms  
Bioreactors  
Microtechnology  
Pointing mechanism  
Robotic

### competitive edge / company strengths

Microgravity instruments  
Micro-mechanisms  
Sliprings for space  
Tribology  
Micro-engineering

## *Contact*

**Mr. Arnaud Gisiger**  
*General Manager*

# MPB Technologies Inc. (\*)

## *Canada*

151 Hymus Boulevard  
Pointe Claire  
Québec H9R 1E9  
Telephone + 1 514 694 8751  
Fax + 1 514 695 7492  
E-mail [ghosh@mpbtech.qc.ca](mailto:ghosh@mpbtech.qc.ca)  
Web site [www.mbp-technologies.ca](http://www.mbp-technologies.ca)

Date company established **1976**  
Employees **200**  
Annual sales **NA**  
Export sales **NA**

## main activity

Space payload & engineering services  
Telecommunications (OISL, Terrestrial)  
Laser products (Fiber, gas lasers)  
Remote sensing (Microwave, optical)  
Electronic testing  
Ground support systems (e.g. Transponder, NATAS)  
Photonics research and development  
Telerobotics

### competitive edge / company strengths

Cross-coupling of diverse disciplines  
Market leader in laser products  
Innovation in electronics and optics  
R&D and analytical capabilities  
Locations in Canada, US, Europe  
World-wide sales in telecommunications  
Successful space payloads (MIM, ARF, CHAMPS)  
Already established partnerships in Europe

## *Contact*

**Dr. A.K. Ghosh**  
*Director*

# Nema Industrietechnik GmbH

## *Germany*

Reinsdorfer Weg, 4  
08491 Netzschkau  
Telephone + 49 3765 494 562  
Fax + 49 3765 494 412  
E-mail [nema@nema-it.com](mailto:nema@nema-it.com)  
Web site [www.nema-it.com](http://www.nema-it.com)

Date company established **1991**  
Employees **75**  
Annual sales **5,1 MEuro**  
Export sales **1 MEuro**

## main activity

Environmental test systems for temperature, clima, light, pressure, sheltertechnic

### competitive edge / company strengths

Complete solution for environmental applications  
Hard- and software development tools  
About 50 years experience with 1000 to 1200 test units per year - military and military industry branch, high sophisticated industrial solutions world wide

## *Contact*

**Mr. Wolfgang Schmidt**  
*Sales Manager*

# Neptec

## *Canada*

302 Legget Dr Kanata  
Ontario K2K1V5  
Telephone + 1 613 599 7602  
Fax + 1 613 599 7604

Date company established **1991**  
Employees **110**  
Annual sales **12,9 MEuro**  
Export sales **11,6 MEuro**

## main activity

Space vision systems  
Image & target tracking  
Space qualified computer

### competitive edge / company strengths

Video & laser processing  
Sensor processing  
Real time systems  
Space qualified hardware  
Target tracking  
Vision systems  
QNX applications

## *Contact*

**Mr. John Mc Carthy**  
*Vice President*

# NII Norsat International Inc. (\*)

## *Canada*

100-4401 Still Creek Drive  
Surrey, BC V3W 8E7  
Telephone + 1 604 292 9000  
Fax + 1 604 292 9100  
E-mail wstrecko@norsat.com  
Web site www.norsat.com

Date company established **1979**  
Employees **130**  
Annual sales **26,5 MEuro**  
Export sales **23,8 MEuro**

## main activity

Ground segment - end user equipment  
RF front end components and outdoor units for VSAT terminals  
Satellite interface terminals  
Products and services for wireless broadband access

### competitive edge / company strengths

Largest supplier of commercial LNBS  
Distribution and support for satellite DHT and interactive services

## *Contact*

**Mr. Wolfgang Strecko**  
*Director Microwave Products*

# Objectif Technologie (\*)

## *France*

28 Villa Baudran  
94742 Arcueil Cedex  
Telephone + 33 1 49 08 58 00  
Fax + 33 1 49 08 95 88  
E-mail trehin@objectif.fr  
Web site www.objectif.fr

Date company established **1989**  
Employees **35**  
Annual sales **3 MEuro**  
Export sales **NA**

## main activity

Consulting in software process improvement  
Consulting in system engineering process improvement  
Training in key process areas: requirement management; project management; quality management; configuration management; system engineering...  
Software applications development (client/sever, Intranet, DBMS, GUI...)  
Training, consulting in object oriented technologies (UML, Cobra, C++, Java)

### competitive edge / company strengths

Process assessment and improvement based on the software engineering institute (SEI) capability maturity models (SW-CMM, SE-CMM, SA-CMM, CMM-I...) and on the SPICE model (future ISO standard 15504). The director general of the company is certified "Lead Assessor" by the SEI and can delivered officially recognised CMM levels  
Object-oriented and distributed software development (OMT, UML, Cobra, Java, C++...)

## *Contact*

**Mr. Yves Trehin**  
*Manager*

# Omnisys Instruments AB (\*)

*Sweden*

Gruvgatan, 8  
42130 Goeteborg  
Telephone + 46 31 7096970  
Fax + 46 31 7096979  
E-mail ae@omnisys.se  
Web site www.omnisys.se

Date company established **1992**  
Employees **10**  
Annual sales **1,2 MEuro**  
Export sales **0,6 MEuro**

## main activity

Design development & production of scientific instruments for space, speciality: (sub)millimetre radiometer systems  
Design, development & production of power electronics for space  
Design, development & production of data handling and data acquisition electronics for space  
Design, development & production of full custom and mixed signal ASICs, including CMOS, bipolar and GaAs  
Design, development of circuits and subsystems in the microwave, advanced analog and high speed areas  
System and subsystem studies

### competitive edge / company strengths

Wide and deep competence base, 80% of the employees have M.Sc or higher degree  
IN house capability of VLSI design, microwave design, 3D mechanical design as well as advanced PCB design  
In house capability for fast prototyping and testing up to the microwave region  
Extensive experience in the design of radiometer systems and components, such as (sub)millimetre frequency generation and digital spectrometers  
Experience with the use of commercial components in space applications  
On-going research collaboration with several universities, Chalmers for millimetre wave technology, LiTH for full custom CMOS design and KTH for high speed bipolar design

## *Contact*

**Mr. Anders Emrich**  
*CEO*

## *France*

BP 275  
ZE de la Farlède  
83078 Toulon Cedex 09  
Telephone + 33 4 94 08 66 90  
Fax + 33 4 94 08 66 94  
E-mail [taudet@optis.fr](mailto:taudet@optis.fr)  
Web site [www.optis.fr](http://www.optis.fr)

Date company established **1989**  
Employees **33**  
Annual sales **1,8 MEuro**  
Export sales **0,9 MEuro**

## main activity

Simulation of optical systems photometry and laser  
Development of software  
Simulation and design of optronics systems  
Virtual prototyping of optronics systems  
Research and optimisation of optronics systems

### competitive edge / company strengths

Simulation of light propagation taking into account light/matter interaction  
Infrared  
Laser simulation  
Radiometric simulation software with non sequential propagation and scattering effects

## *Contact*

**Mr. Thierry Audet**  
*Vice President Sales & Marketing*

# Optocom

## *France*

1 rue de Langonaval  
22300 Lannion  
Telephone + 33 2 96 37 26 99  
Fax + 33 2 96 46 46 89  
E-mail [optocom@wanadoo.fr](mailto:optocom@wanadoo.fr)  
Web site [www.chez.com/optocom](http://www.chez.com/optocom)

Date company established **1997**  
Employees **7**  
Annual sales **NA**  
Export sales **NA**

## main activity

High power fiber amplifiers and lasers at 1,0 and 1,5  $\mu\text{m}$

### competitive edge / company strengths

Innovative technology that allows for high power, great integration, simplicity and reduce cost  
Reactive and motivated team

## *Contact*

**Mr. Marc Le Flohic**  
*President*

# Photonic Science

## *Great Britain*

Millham, Mountfield  
Robertsbridge  
R. Sussex TN32 5LA  
Telephone + 44 1580 881199  
Fax + 44 1580 880910  
E-mail [admin@photonic-science.ltd.uk](mailto:admin@photonic-science.ltd.uk)  
Web site [www.photonic-science.ltd.uk](http://www.photonic-science.ltd.uk)

Date company established **1985**  
Employees **25**  
Annual sales **NA**  
Export sales **NA**

## main activity

Manufacturer of scientific camera systems  
R&D  
Contractor to major European military projects  
Consultants for European research projects

### competitive edge / company strengths

Design and build of unique and innovative specialist systems  
15 years experience in Europe  
The company employs specialist in all fields, including aviation  
Ability to develop new solutions/projects for new markets  
Products range from electro optic components to complete imaging systems  
Ability to adapt/diversify in a rapid evolving market  
ISO9001

## *Contact*

**Mrs. Patricia Tomkins**  
*Managing Director*

# Plasma-Finish GmbH

*Germany*

Postfach 100463  
16294 Schwedt  
Telephone + 49 3332 5389 20  
Fax + 49 3332 5389 35  
E-mail PLASMA-finish@t-online.de

Date company established **1995**  
Employees **12**  
Annual sales **1,5 MEuro**  
Export sales **0,8 MEuro**

## main activity

Producing of low pressure plasma systems including process development and service

### competitive edge / company strengths

Small flexible company custom designed systems service

## *Contact*

**Mr. Rudolf Knes**  
*Managing Director*

# Plasma Ireland Ltd (\*)

## *Ireland*

22, summerhill north  
Cork  
Telephone + 353 21 506101  
Fax + 353 21 506106  
E-mail braddell@plasma-ireland.com  
Web site www.plasma-ireland.com

Date company established **1992**  
Employees **24**  
Annual sales **2,2 MEuro**  
Export sales **2 MEuro**

## main activity

Precision coated optics: DUV-NIR  
LEDs: 430nm - 1,4µm  
Laser diodes  
Plasma Systems manufacture

### competitive edge / company strengths

Highly innovative  
R&D orientated, e.g. brite-eulam...  
Leading edge technical performance products  
US & European export market dominated

## *Contact*

**Mr. Jules Braddell**  
*Director*

# Polymarin B.V.

*The Netherlands*

Nijverheidsweg 7  
1670 AD Medemblik  
Telephone + 31 227 543044  
Fax + 31 227 543 860  
E-mail dhofstra@polymarin.nl  
Web site www.polymarin.nl

Date company established **1960**  
Employees **225**  
Annual sales **13,6 MEuro**  
Export sales **6,8 MEuro**

## main activity

Design, development, manufacturing of composite structures

### competitive edge / company strengths

Combination design and manufacturing  
Variety of production techniques  
Large facilities  
Excellent project management skills  
High quality/low cost  
ISO9001

## *Contact*

**Mr. C.J.D. Hofstra**  
*Product Manager*

# Principia (\*)

## *France*

Bregaillon  
83507 La Seyne-sur-Mer  
Telephone + 33 4 94 11 54 35  
Fax + 33 4 94 06 58 83  
E-mail eric.landel@wanadoo.fr

Date company established **1981**  
Employees **100**  
Annual sales **8 MEuro**  
Export sales **0,5 MEuro**

## main activity

Scientific engineering in mechanic, acoustic, fluid mechanic, thermal, energy and hydrodynamic

### competitive edge / company strengths

Liquid shock in micro gravity  
Thermodynamic in diphasic (EOLE), network: CEDRIC software  
Acoustic computation on launcher

## *Contact*

**Mr. Landel**  
*Scientific Director*

# Printca

## *Denmark*

Svendborgvej, 3  
9220 Aalborg Ost  
Telephone + 45 9930 9200  
Fax + 45 9930 9299  
E-mail vda@printca.dk  
Web site www.printca.dk

Date company established **1972**  
Employees **135**  
Annual sales **72 MEuro**  
Export sales **NA**

## main activity

Bare board Mil  
Bare board, space ESA

### competitive edge / company strengths

All approvals, ESA, CNES, MIL

## *Contact*

**Mr. Viggo Dahn**  
*Sales Manager*

# Progres

## *Italy*

Via F. Rolla, 21  
Telephone + 39 10 648091  
Fax + 39 10 6518654  
E-mail [progres@stAnet.it](mailto:progres@stAnet.it)

Date company established **1982**  
Employees **54**  
Annual sales **4,65 MEuro**  
Export sales **3,7 MEuro**

## main activity

Air conditioning  
Electronics cooling  
Test equipment  
Electronics  
Maintenance  
Environmental monitoring

### competitive edge / company strengths

Mil specifications management  
European programs participant  
Custom equipment design  
Low quantities capability  
Logistics experience  
Innovative products  
Low rates for compartment

## *Contact*

**Mr. E. Barusi**  
*President*

# Rovsing A/S

## *Denmark*

Dyregardsvej 2  
PO Box 30  
2740 Skovlunde  
Telephone + 45 44 200 800  
Fax + 45 44 200 801  
E-mail [peh@rovsing.dk](mailto:peh@rovsing.dk)  
Web site [www.rovsing.dk](http://www.rovsing.dk)

Date company established **1992**  
Employees **110**  
Annual sales **NA**  
Export sales **NA**

## main activity

Check-out systems  
On-board software  
Ground support software  
Ground station software  
Ground network & Processing of earth observation data  
Simulation and evaluation Systems  
Software development environments  
Microgravity facilities  
Vibration engineering  
System exploitation and maintenance  
Programme management activities

### competitive edge / company strengths

Advanced SW technology  
SW systems design

## *Contact*

**Mr. Poul Erik Holmdahl**  
*Division Manager Space Systems*

# Rtusi N.V. (\*)

## *Belgium*

Rue de la Justice, 23  
1070 Brussels  
Telephone + 32 2 523 24 62  
Fax + 32 2 520 83 09  
E-mail l.perneel@rtusi.com  
Web site www.rtusi.com

Date company established **1991**  
Employees **10**  
Annual sales **800 kEuro**  
Export sales **400 kEuro**

## main activity

Real-time systems analysis, design & development (software)  
Consulting & audits on real-time systems  
Debugging systems of distributed real-time applications  
EGSE front-end test equipment  
VAR for real-time development tools

### competitive edge / company strengths

Everything about time-critical software and dedicated systems  
Detailed knowledge of most RTOSs  
Experts on parallel buses: VME-bus, PCI and related buses  
Experts on serial buses: MIL-1553-STD, TAXI, ARINC...  
Large knowledge of all available SW and HW  
Production of high quality real-time systems

## *Contact*

**Mr. Luc Perneel**  
*Technical Director*

# Rudolf Brugger SA (\*)

## *Switzerland*

Via Decio Bacilieri, 24  
6648 Minusio  
Telephone + 41 91 743 54 13  
Fax + 41 91 743 54 60  
E-mail r.brugger@pop.spectraweb.ch

Date company established **1949**  
Employees **40**  
Annual sales **2,9 MEuro**  
Export sales **1,4 MEuro**

## main activity

Micro components in saphire / rubies  
Watch components  
Micro mechanic components  
Medical micro devices

### competitive edge / company strengths

Flexibility  
Quality  
Know how since 1949  
Previous experience with mechanical components for the Ariane project in co-operation with FIAT Italy

## *Contact*

**Mr. Nicolas Pittet**  
*Ass. of Direction*

# SEE

## *Belgium*

18, avenue du commerce  
1420 Braine-l'Alleud  
Telephone + 32 2 3890020  
Fax + 32 2 3890030  
E-mail a.lebrun@see.be  
Web site www.see.be

Date company established **1972**  
Employees **130**  
Annual sales **10 MEuro**  
Export sales **2 MEuro**

## main activity

Telecommunications products  
CATV equipment

### competitive edge / company strengths

High quality design  
Flexibility

## *Contact*

**Mr. Lebrun**  
*R&D Manager*

# Sensorex

## *France*

Int. business park  
74166 St Julien  
Telephone + 33 4 50 95 43 71  
Fax + 33 4 50 95 43 75  
E-mail [dwilliam@sensorex.fr](mailto:dwilliam@sensorex.fr)  
Web site [www.sensorex.fr](http://www.sensorex.fr)

Date company established **1985**  
Employees **85**  
Annual sales **6,7 MEuro**  
Export sales **2,2 MEuro**

## main activity

LVDT displacement sensors  
Inclinometers  
Accelerometers  
Impact recorders

### competitive edge / company strengths

Custom design  
Short lead time  
High reliability

## *Contact*

**Mr. Didier Williams**  
*Export Manager*

# SESO (\*)

*France*

BP 55000  
13792 Aix-en-Provence Cedex 3  
Telephone + 33 4 42 16 85 00  
Fax + 33 4 42 16 85 85  
E-mail info@seso.com  
Web site www.seso.com

Date company established **1979**  
Employees **60**  
Annual sales **42,3**  
Export sales **NA**

## main activity

Astronomy and science  
Space and defence  
Nuclear  
Industry

**competitive edge / company strengths**

## *Contact*

**Mr. Michel Detaille**  
*Space Commercial Manager*

## *Italy*

Strada Antica di Collegno 253  
10146 Torino  
Telephone + 39 011 7720111  
Fax + 39 011 725679  
E-mail masera@sia-av.it  
Web site www.sia-av.it

Date company established **1969**  
Employees **200**  
Annual sales **NA**  
Export sales **NA**

## **main activity**

Avionics system design  
Embedded SW development  
Simulation SW development  
Integration and testing  
Safety analysis - RAM analysis  
Computer based training  
Ground and mission operations  
Technology documentation (even multimedia)

### **competitive edge / company strengths**

Deep knowledge of ESA standards and programs  
Distributed architectures  
Hard real-time simulations  
Real-time SW for aerospace  
Object oriented technology  
ISO9001 certified  
NATO AQAP 150 certified

## *Contact*

**Mr. Lorenzo Masera**  
*Marketing Manager*

# Sira Electro-Optics Ltd (\*)

## *Great Britain*

South hill  
Chislehurst  
Kent BR7 5EH  
Telephone + 44 181 467 2636  
Fax + 44 181 467 6515  
E-mail [marketing@sira.co.uk](mailto:marketing@sira.co.uk)  
Web site [www.sira.co.uk](http://www.sira.co.uk)

Date company established **1918**  
Employees **40**  
Annual sales **4 MEuro**  
Export sales **3 MEuro**

## main activity

Imaging spectrometers  
Star sensors  
Optical intersatellite link terminals  
Component radiation testing  
IR telescopes  
Instrument design studies

### competitive edge / company strengths

Compact, flexible, response organisation  
Radiation expertise  
20 years space expertise  
Optical instrumentation expertise

## *Contact*

**Mr. B.W. Teather**  
*Marketing Manager*

# Skysoft Portugal (\*)

## *Portugal*

Taguspark  
Nucleo central, 337  
2780 Oeiras  
Telephone + 351 21 422 87 11  
Fax + 351 1 921 51 61  
E-mail [aero@skysoft.pt](mailto:aero@skysoft.pt)  
Web site [www.skysoft.pt](http://www.skysoft.pt)

Date company established **1992**  
Employees **50**  
Annual sales **NA**  
Export sales **NA**

## main activity

Datalink/cophs software development  
Communication standardisation  
Integrated and modular avionics R&D

### competitive edge / company strengths

Future technology oriented

## *Contact*

**Mr. Alfredo Gameiro Pals**  
*Director*

# Smt & Hybrid GmbH

*Germany*

An der Preissnitzau, 22  
01474 Dresden  
Telephone + 49 351 26613 0  
Fax + 49 351 26613 10  
E-mail SMT.HYBRID@t-online.de  
Web site www.smt-hybrid.de

Date company established **1990**  
Employees **55**  
Annual sales **6,6 MEuro**  
Export sales **0,2 MEuro**

## main activity

Development and manufacturing of electronic boards on customer request (SMD, BGA)  
Measuring instrument for shock, temperature, humidity, inclination

### competitive edge / company strengths

Full service around the electronic boards instrument design  
Experience in the field of aerospace  
Modern technology

## *Contact*

**Mr. Lutz Kuschel**  
*Manager*

# Socratec GmbH (\*)

## *Germany*

Maxhuetter Strasse. 16  
93158 Teublitz  
Telephone + 49 9471 3100 207  
Fax + 49 9471 3100 209  
E-mail jose@socratec.de  
Web site www.socratec.de

Date company established **1997**  
Employees **7**  
Annual sales **0,4 MEuro**  
Export sales **0,2 MEuro**

## main activity

Satellite Navigation related system studies and system engineering  
Development of simulation, analysis and processing tools for satellite navigation studies  
Technical consultancy in satellite navigation issues  
Development of embedded software for real-time applications in satellite navigation

### competitive edge / company strengths

More than nine years of experience with satellite navigation  
Current involvement in GNSS-2 and EGNOS programmes  
Expertise in the field of spaceborne applications of satellite navigation  
Very good overview of satellite navigation marketplace in all senses  
Involvement in mass market applications of satellite navigation technology (transport telematics)  
Small size, i.e. high flexibility, excellent expertise at reasonable cost

## *Contact*

**Mr. José M. Fraile**  
*Managing Director*

# Soditech

## *France*

4, allée des cormorans  
06150 Cannes la Bocca  
Telephone + 33 4 92 19 48 00  
Fax + 33 4 93 48 98 13  
E-mail [soditech@soditech.com](mailto:soditech@soditech.com)  
Web site [www.soditech.com](http://www.soditech.com)

Date company established **1990**  
Employees **230**  
Annual sales **13,9 MEuro**  
Export sales **0,92 MEuro**

## main activity

Satellite mechanical and design conception  
Calculations  
Project implementation  
Multilayer insulation integrator  
Satellite cabling

### competitive edge / company strengths

CAD/CAM users  
Structural and mechanical Analysis  
Spatial Quality control  
Manufacture of satellite super isolation  
Manufacture of satellite cabling

## *Contact*

**Mr. B. Simon**  
*Commercial Director*

# Space Engineering (\*)

## *Italy*

Via dei berio, 91  
00155 Roma  
Telephone + 39 06 22595 213  
Fax + 39 06 2280739  
E-mail [tirro@space.it](mailto:tirro@space.it)

Date company established **1988**  
Employees **50**  
Annual sales **8,3 MEuro**  
Export sales **0,8 MEuro**

## main activity

System design and analysis  
Antenna design  
Test & measurement  
Digital systems  
ASIC design  
Scientific and simulation SW  
Training and services

### competitive edge / company strengths

Focused teams with niche expertise  
Responsive  
No bureaucracy  
Flat organisation  
Aerospace veterans  
Productive and innovative

## *Contact*

**Mr. Sebastiano Tirro**  
*President*

# Space Systems Finland Ltd (\*)

## *Finland*

Kappelitie 6  
02200 Espoo  
Telephone + 358 9 613 28 600  
Fax + 358 9 613 28 699  
E-mail seppo.korpela@ssf.fi  
Web site www.ssf.fi

Date company established **1988**  
Employees **33**  
Annual sales **2 MEuro**  
Export sales **1,6 MEuro**

## main activity

On-board software  
Software validation facilities  
Ground processing software  
Digital signal processing software  
Optical instruments  
System engineering

### competitive edge / company strengths

Research in software methodologies and advanced tools  
Knowledge of system level aspects  
Knowledge of earth observation applications  
High education level

## *Contact*

**Mr. Seppo Korpela**  
*Managing Director*

# Space Technology Ireland (\*)

## *Ireland*

Telephone + 353 1 6286788  
Fax + 353 1 6286470  
E-mail stil@may.ie

Date company established **1980**  
Employees **NA**  
Annual sales **NA**  
Export sales **NA**

## **main activity**

Build HW and SW for space applications  
Provide consultancy services  
Fault-tolerant data processing  
Design physical science instrumentation  
Test, calibrate our instruments  
Space electronics  
Data handling and storage

## **competitive edge / company strengths**

20 years experience  
Instruments flown on ESA, NASA, Russian and Japanese missions  
High reliability, fault tolerant data processing

## *Contact*

**Mrs. Susan Mc Kenna-Lauler**  
*Managing Director*

# Susar Consulting AS (\*)

*Norway*

Gaustadallen 21  
0349 Oslo  
Telephone + 47 22 95 85 15  
Fax + 47 22 95 85 11  
E-mail lind@susar.no  
Web site

Date company established **1997**  
Employees **35**  
Annual sales **530 kEuro**  
Export sales **416 kEuro**

## main activity

Mathematical modelling of airborne SAR system  
Mathematical modelling of sea surface RCS  
Target adaptive matched filtering  
Wavelet processing  
Coherent radar  
Bistatic radar  
Generic interference analyses for SATCOM, radar, LOS  
Mitigation of passive IM in high-power multicarrier systems, and of noise bursts in single carrier systems

### competitive edge / company strengths

Previous and ongoing ESA contracts  
Ongoing contract with a major Japanese Company  
Several radar patents  
Extensive experience with field tests (radar, interference)  
Academic qualifications: Two PhD's, two MSc's  
More than 50 years accumulated experience with LOS, SATCOM, LEO systems, coherent radars, interference  
RF prototyping and test facilities  
Data collection and processing experience and equipment

## *Contact*

**Mr. Thomas Lind**  
*Managing Director*

# Systementwicklung Raimas Heinze

*Germany*

Ottendorfer Strasse 4  
09661 Hainichen  
Telephone + 49 37207 892 0  
Fax + 49 37207 892 18  
E-mail rhs.de@t-online.de  
Web site home.t-online.de/home/rhs.de

Date company established **1998**  
Employees **20**  
Annual sales **511 kEuro**  
Export sales **NA**

## main activity

Software development

### competitive edge / company strengths

Real-time systems  
Signal processing, analysis and evaluation  
Protocol converters  
Screen surfaces  
Telecommunication systems (ISDN, ATH...)

*Contact*

Mr. Heinze

# Systems Engineering & Assessment Ltd (\*)

*Great Britain*

Beckington Castel  
PO Box 800  
Bath BA3 6TB  
Telephone + 44 1373 8520 79  
Fax + 44 1373 8311 33  
E-mail [pcj@sea.co.uk](mailto:pcj@sea.co.uk)  
Web site [www.sea.co.uk](http://www.sea.co.uk)

Date company established **1988**  
Employees **115**  
Annual sales **9000 kEuro**  
Export sales **500 kEuro**

## main activity

Mission analysis studies  
Analysis tool developments  
EGSE  
Signal Processing (especially SAR)  
Onboard payload software engineering  
DSP hardware (incl. onboard)  
Systems engineering support  
EO data processing tools (SAR)

### competitive edge / company strengths

Highly qualified technical staff  
Signal processing specialists  
Long experience of staff in space industry  
Attention to customers' needs  
Independence (employee owned)  
Strong internal processes (cost control)  
Innovative approach to problems

## *Contact*

**Mr. Philip James**  
*Business Development Manager*

# Teamcom AS (\*)

## *Norway*

P.B. 333  
1379 Nesbru  
Telephone + 47 66 77 44 00  
Fax + 47 66 77 44 01  
E-mail [terje.pettersen@teamcom.no](mailto:terje.pettersen@teamcom.no)  
Web site [www.teamcom.no](http://www.teamcom.no)

Date company established **NA**  
Employees **50**  
Annual sales **15 MEuro**  
Export sales **9 MEuro**

## main activity

Ku-band transceivers  
Low data rate VSAT network (TSAT2000/2100)  
Terminals for Internet access via satellites

### competitive edge / company strengths

General RF technology  
Ku-/Ka-band transceiver technology  
Satellite communication data transfer

## *Contact*

**Dr. Terje Pettersen**  
*R&D Director*

# Techno System Developments (\*)

## *Italy*

Zona Industrial San Martin, 27  
80087 Pozzuoli (Naples)  
Telephone + 39 81 5263 475 / 5268 313  
Fax + 39 81 5262 701  
E-mail tsdev@tin.it  
Web site

Date company established **1977**  
Employees **20**  
Annual sales **1,03 MEuro**  
Export sales **0,51 MEuro**

## main activity

Techno System is specialised in design, development and manufacturing of electronic equipment for space applications. Main products are:

- on board data handling and control unit
- image processing and compression unit
- battery and power distribution unit
- telemetry and telecommand System
- electronic ground support equipment

### competitive edge / company strengths

Customisation and innovation  
Compressed development time  
Excellent quality / price ratio  
Extensive knowledge of market's products and components  
Microprocessor, platforms and buses  
Real-time multi-tasking operative systems  
Firmware and software development  
Microprocessor, platforms and buses  
Real-time multi-tasking operative systems  
Firmware and software development  
Signal conditioning and data acquisition  
Process management and control  
Digital image and data processing  
Power conditioning and distribution

## *Contact*

**Mrs. Liliana Boccolini**  
*Managing Director*

# Tecnologica (\*)

## *Spain*

Avda. Tomas Alba Edison, s/n  
Isla de la Cartuja  
41092 Sevilla  
Telephone + 34 95 446 7050  
Fax + 34 95 446 7339  
E-mail mbermudo@tecnologica.com  
Web site www.tecnologica.com

Date company established **1986**  
Employees **65**  
Annual sales **24 MEuro**  
Export sales **20,4 MEuro**

## main activity

Electronic components procurement  
Parts engineering and support to design  
Support to production: incoming inspection, burn-in, screening of components, etc...  
Analysis of final products: constructional analysis, DPA, development of electrical measurements programs, evaluation, etc...  
Use related tests: life tests, environmental and mechanical tests, failure analysis, etc...  
Radiation testing (total dose)

### competitive edge / company strengths

Electronic components procurement for space applications  
Testing services on electronic components  
Parts engineering and support to design

## *Contact*

**Mr. Miguel Bermudo**

# Telegärtner Gerätebau GmbH

*Germany*

Frauenstrasse, 1  
01774 Höckendorf  
Telephone + 49 35055 682 0  
Fax + 49 35055 61224  
E-mail [geraetebau@telegaertner.com](mailto:geraetebau@telegaertner.com)  
Web site [www.geraetebau.telegaertner.com](http://www.geraetebau.telegaertner.com)

Date company established **1991**  
Employees **140**  
Annual sales **9,2 MEuro**  
Export sales **1,8 MEuro**

## main activity

Optical fibre components  
Cut-to-length and terminal cables  
Precision lathe work  
Subassemblies  
Custom-made solutions

### competitive edge / company strengths

Flexibility  
Quality  
Reliable  
Optimal assistance

## *Contact*

Mr. Ulrich Geisler

# Telespace Ltd (\*)

## *Canada*

505 eglinton avenue west  
Suite 403  
M5N 1B1 Toronto  
Telephone + 1 416 481 7005  
Fax + 1 416 481 4738  
E-mail [uriel@telespace.org](mailto:uriel@telespace.org)  
Web site [www.telespace.org](http://www.telespace.org)

Date company established **1980**  
Employees **25**  
Annual sales **105 kEuro**  
Export sales **105 kEuro**

## main activity

Satellite communications program management  
Satellite communication consultancy  
Other satellite consultancy (remote sensing, meteo, etc...)  
Frequency co-ordination services  
Launch support consultancy  
Ground segment consultancy

### competitive edge / company strengths

Extensive int'l experience - worked for most of the leading satellite operators in the world  
Unique and dedicated team for each project with well known satellite experts  
Familiar with all major US and European satellite manufacturers and all commercial launch vehicles

## *Contact*

**Mr. Uriel Domb**  
*President and CEO*

# Tenet Systems Ltd (\*)

## *Great Britain*

North Heath Lane  
Horsham  
West Sussex RH12 5UX  
Telephone + 44 1402 273173  
Fax + 44 1402 273123  
E-mail keith@tenet.co.uk  
Web site www.tenetsystems.com

Date company established **NA**  
Employees **40**  
Annual sales **4,5 MEuro**  
Export sales **NA**

## main activity

Software engineering  
Software development tools  
Software evaluation tools  
Software application development  
Earth observation added value data products

### competitive edge / company strengths

High performance mapping products for fast pan and zoom with automatic declutter  
2D and 3D data visualisation  
Integration of real-time dynamic data with digital map data  
Object-oriented software development in C++ and Java  
ISO9001

## *Contact*

**Dr. Keith Wishart**  
*Business Development Consultant*

# TGS Europe

## *France*

18, avenue sommer  
92167 Antony Cedex  
Telephone + 33 1 42 37 66 66  
Fax + 33 1 42 37 27 15  
E-mail Aude.Robertet@paris.tgs.com  
Web site www.europe.tgs.com

Date company established **1986**  
Employees **50**  
Annual sales **3 Meuro (Europe)**  
Export sales **1,5 Meuro (Europe)**

## main activity

3D graphics development tools  
Technical representation  
Visualisation  
Simulation  
Virtual reality  
CAD  
Expertise, services, training

### competitive edge / company strengths

3D graphics software tools  
High level components  
Interactive, multi-platforms components  
C++ and Java API  
Large model visualisation technology  
GIS  
Consulting and training services

## *Contact*

**Mrs. Aude Robertet**  
*Sales representative*

# Thermocoax

## *France*

40, boulevard Henri Sillivier  
92156 Suresnes Cedex  
Telephone + 33 1 41 38 80 66  
Fax + 33 1 41 38 80 70  
Web site [www.thermocoax.com](http://www.thermocoax.com)

Date company established **1957**  
Employees **140**  
Annual sales **NA**  
Export sales **NA**

## main activity

Nuclear  
Aeronautic  
Spatial  
Defence  
Analytical

### competitive edge / company strengths

Thermocouples  
Heating elements  
De-icing / De-misting sensors

## *Contact*

Mr. Renard

## *France*

Technopôle de Brest Iroise  
CP1  
29608 Brest Cedex  
Telephone + 33 2 98 05 27 44  
Fax + 33 2 98 05 63 50  
E-mail pierre.dissaux@tni.fr  
Web site www.tni.fr

Date company established **1985**  
Employees **20**  
Annual sales **1,9 MEuro**  
Export sales **0,15 MEuro**

## **main activity**

Software development  
Edition and distribution of software tools  
Consulting and training

### **competitive edge / company strengths**

Tools supporting ESA methodologies (HOOD, HOORA)  
Numerous commercial and technical references in space industry  
Skills in developing software tools  
Skills in advanced software technology

## *Contact*

**Mr. Pierre Dissaux**  
*Marketing Manager*

# Top Rel Srl (\*)

*Italy*

Via dei Berio, 91  
00155 Roma  
Telephone + 39 06 2282279  
Fax + 39 06 2285266  
E-mail top.rel@agora.stm.it  
Web site www.toprel.com

Date company established **1988**  
Employees **25**  
Annual sales **7 MEuro**  
Export sales **3,5 MEuro**

## main activity

Part procurement for space applications  
Testing of components  
Technological activity  
Design and development of small assemblies  
Design and development of telecommunication equipment (VSAT, etc..)

**competitive edge / company strengths**

## *Contact*

**Mr. Giovanni Cucinella**  
*Director of Operations*

# Vega Technology Ltd (\*)

*Great Britain*

3 fruze court  
114 wickham road  
Fareham, Hants  
Telephone + 44 1329 230530  
Fax + 44 1329 230537  
E-mail vegatech@compuserve.com

Date company established **1996**  
Employees **28**  
Annual sales **3 MEuro**  
Export sales **NA**

## main activity

Module assembly  
Module test  
Sub-system assembly  
Conformal coating

### competitive edge / company strengths

ESA trained instructor  
NASA instructor  
BS5295 class 'K' cleanroom

## *Contact*

**Mr. Jhon Moth**  
*Managing Director*

# Verhaert (\*)

## *Belgium*

Hogenakkerhoekstrasse, 9  
9150 Kruibeke  
Telephone + 32 13250 14 14  
Fax + 32 13250 14 64  
E-mail ina.vanhoye@verhaert.com  
Web site www.verhaert.com

Date company established **1969**  
Employees **130**  
Annual sales **4,8 MEuro**  
Export sales **4,8 MEuro**

## main activity

System studies and engineering  
Small satellites systems/subsystems  
Advanced ACS  
Autonomy SW  
Satellite structures  
Biological life support systems  
Opto-mechanical engineering  
End-to-end satellite systems  
Systems studies  
Ejection systems  
Scientific payload instrumentation  
Structural engineering and mechanism

### competitive edge / company strengths

System level competence, multidisciplinary, system integration, testing  
Design to cost attitude (industrial background)  
"Faster, better, cheaper" approach

## *Contact*

**Mrs. Ina Van Hoye**  
*Communications*

# Vibria

## *France*

185, espace Athéna  
83190 Ollioules  
Telephone + 33 4 94 18 91 20  
Fax + 33 4 94 24 35 20  
E-mail [gaeta@vibria.com](mailto:gaeta@vibria.com)  
Web site [www.vibria.com](http://www.vibria.com)

Date company established **1989**  
Employees **20**  
Annual sales **NA**  
Export sales **NA**

## main activity

Signal processing R&D  
Vibration analysis  
Sonar applications  
Environment applications

### competitive edge / company strengths

State of the art signal processing  
Non linear analysis & modelling  
Non-stationary analysis  
Higher order statistics  
Neural networks  
Multidimensional analysis  
Blind deconvolution

## *Contact*

**Mr. Michel Gaeta**  
*Scientific Manager*

# Welco Technik AG (\*)

## *Switzerland*

Industrie Rothaus  
8635 Dürnten  
Telephone + 41 55 240 70 23  
Fax + 41 55 240 84 49  
E-mail welco@bluewin.ch

Date company established **1974**  
Employees **25**  
Annual sales **2,5 MEuro**  
Export sales **2,2 MEuro**

## main activity

Control desk system  
Consoles  
19" racks

### competitive edge / company strengths

Custom made  
High quality  
Flexible Control D.

## *Contact*

**Mr. Harry Imholz**  
*Sales Director*

# WNA Micro Applications

## *Great Britain*

Sentinel House  
Nuffield Road  
POOLE, Dorset, BH17 ORE  
Telephone + 44 1202 666766  
Fax + 44 1202 666866  
E-mail nicyonder@aol.com  
Web site www.wna.co.uk

Date company established **1972**  
Employees **10**  
Annual sales **258 kEuro**  
Export sales **NA**

## main activity

Computer communication  
Database systems  
Data acquisition / analysis  
Digital control systems  
Satellite prediction and tracking  
Motor control including stepper motors  
Simulation software / hardware  
Real-time multi-tasking software

### competitive edge / company strengths

Delivering systems on time and to budget  
Quality of products (ISO 9001 & 9000-3)  
Customer satisfaction shown by repeat contacts  
Stable and experienced staff  
Secure facilities for classified work

## *Contact*

**Mr. W C Nicoll**  
*Director*